

Digital Processor / Digital Mixer SERVICE MANUAL



Models: IQ-USM 810

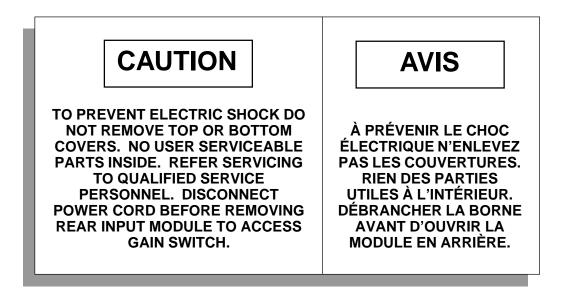
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130447-1 04-00 Rev. A ■СГОШП[®] _

The information furnished in this manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance. If you need special assistance beyond the scope of this manual, please contact the Crown Technical Support Group.

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WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!



The lightning bolt triangle is used to alert the user to the risk of electric shock.



The exclamation point triangle is used to alert the user to important operating or maintenance instructions. *СГОШП*[®]

Revision History

Revision Number	Date	Comments
Rev. A	04-2000	Initial Printing

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1 Introduction

1.1 Introduction

This manual contains complete service information on the *Crown*[®] *IQ-USM 810* Digital Processor/Digital Mixer. It is designed to be used in conjunction with the Reference Manual; however, some important information is duplicated in this Service Manual in case the Reference Manual is not readily available.

NOTE: THE INFORMATION IN THIS MANUAL IS INTENDED FOR USE BY AN EXPERIENCED TECH-NICIAN ONLY!

1.2 The IQ-USM 810

The Crown IQ-USM 810 is an 8x10 mixer/processor that provides unique dual input processing paths. As an *IQ*[®] component, it can be controlled by an *IQ System*[®], and with its *distributed intelligence*[™] capability, continue to operate even when an IQ System is not connected. The IQ-USM 810 can also act as a system interface to other IQ components.

The IQ-USM 810 features high-quality 24-bit A/D and D/A converters along with 240MIPS of full 32-bit floating point DSP for optimum dynamic range.

The dual input processing paths include a full complement of signal processing features, including advanced algorithms for gating, auto-leveling, filtering, compression and automixing.

A full 8x8 Matrix Mixer allows any combination of routing and mixing from any input to any output. The Matrix Mixer outputs are routed to the two Main Audio Outputs and eight AUX Audio Outputs. The Main and AUX Audio Output sections further process the signal with individually adjustable signal delay and filters along with an Ambient-Leveler and a high performance Output Limiter for system protection.

A Multi-Function Control Port implements analog and digital I/O for control and monitor by simple potentiometer and switch wall controllers and indicator panels.

All of the IQ-USM 810 parameters are backed up via reliable FLASH memory. System configurations may be stored for recall from any of thirty-two system presets from the front panel control or via *IQ for Windows* software.

1.3 Warranty

Each Reference Manual contains basic policies as related to the customer. In addition, it should be stated that this service documentation is meant to be used only by properly trained personnel. Because most Crown products carry a 3-Year Full Warranty (including round trip shipping within the United States), all warranty service should be referred to the Crown Factory or Authorized Warranty Service Center. See the applicable Reference Manual for warranty details. To find the location of the nearest Authorized Warranty Service Center or to obtain instructions for receiving Crown Factory Service, please contact the Crown Technical Support Group (within North America), or your Crown/Amcron Importer (outside North America). If you are an Authorized Warranty Service Center and have questions regarding the warranty of a product, please contact the Crown Factory Service Manager or the Crown Technical Support Group.

Crown Customer Service

Technical Support Group Factory Service Parts Department

Mailing Address: P.O. Box 1000, Elkhart IN 46515 Shipping Address: Plant 2 S. W. 1718 W. Mishawaka Rd., Elkhart IN 46517 Phone: (219) 294-8200 Toll Free: (800) 342-6939 Fax: (219) 294-8301 http://www.crownaudio.com 

Figure 1.1 IQ-USM 810 Front and Rear Views

2 Specifications

General

Front Panel Controls: Front-panel switches select IQ Address, Baud Rate, factory default preset (P00), and any of 32 user-defined presets (P01–P32).

Rear-Panel Controls: A 3-position selector switch (mic/line/phantom) and a calibrated gain control for each input.

Connectors: Crown Bus: RJ-45 for input/output, RJ-45 for daisy output, RS232: DB9F computer interface for both component and interface modes. Multi-function Port: DB37M for analog inputs, digital inputs, digital outputs, +5VDC, +10VDC and Ground. Audio Inputs and Outputs: 3-pin male removable barrier block connectors, Euro-style cable connector supplied. AC Power: IEC320 connector for AC power cord.

Display: A blue front-panel Enable indicator lights to show that the unit is plugged in and AC power is being supplied. An amber front-panel Data Signal Presence Indicator (DATA) flashes whenever commands addressed to the IQ-USM 810 are received. A green front-panel Interface indicator lights when the IQ-USM 810 is being used as system interface. A three-digit digital display indicates the IQ-USM 810's initialization sequence by displaying each processor's name as it comes online, indicates the presently selected preset, indicates the IQ address and baud rate while those parameters are being adjusted, indicates when a parameter has been stored in flash memory, and when any parameter is varied from its value within the currently selected preset. Ladder Display: A front panel, sixteen-segment LED display matrix can be set to three different operating modes: Level Meter, Input Gate Status, and Infinity Pattern.

Power Requirements: 100VAC to 240VAC, 35VA nominal.

Protection: if communication is lost, the unit will continue to function with the last commands received.

RS232 Data Communication

Baud Rate: Selectable to 19.2 K, 38.4 K, 57.6 K, or 115.2 K BAUD.

Data Format: Serial, binary, asynchronous; 1 start bit; 1 stop bit; 8 data bits; no parity.

Crown Bus Data Communication **Data Rate:** 38.4 K BAUD.

Data Format: Serial, binary, asynchronous; 1 start bit;

1 stop bit; 8 data bits; no parity.

Crown Bus Interface Type: Optically isolated 20 mA current loop.

Operation: Half-duplex.

Transmission Distance: Variable from 200 to 3000 feet (61 to 914 meters), depending upon wire capacitance. Typically 1000 feet (305 meters) using shielded twisted-pair wire, #26 AWG or larger. Can be extended with an *IQ Repeater*.

Audio

Phantom Voltage: +24VDC at 10 mA.

Input Gain Range: +20 dB to -12 dB.

Digital Sampling: 24 bit, 48 kHz.

Input Impedance: 20 k ohms balanced, 10 k ohms unbalanced.

Dynamic Range: Greater than 100 dB (A-weighted, 20 Hz–20 KHz).

Frequency Response: ± 0.5 dB, 20 Hz–20 kHz.

Common Mode Rejection: 50 dB (typical).

Crosstalk: Greater than 80 dB at 10 kHz.

Total Harmonic Distortion: Less than 0.05% THD + N (1 kHz, 0 dBu).

Output Impedance: 100 ohms balanced, 50 ohms unbalanced.

Max Input Level: +32 dBu (line) or +7 dBu (mic).

Max Output Level: +20 dBu.

Control Port

Power Supply: +5VDC and +10VDC outputs are provided. The total output current is limited to 1A.

Outputs

Logic Low: less than 0.1V.

Logic High: 10V (via internal pull-up).

Output Current is limited to 10mA max per pin.

Inputs

Input Impedance: greater than 50 k ohms.

Logic Low: less than 0.5V.

Logic High: greater than 5V.

Analog Range: 0 to 10V (for inputs 9-16 only).

Max Input Voltage: 25V.

Mechanical

Weight: 13 pounds, 4 ounces (6.1 kg).

Dimensions: 19-inch (483-cm) standard rack mount width (EIA RS-310-B), 16-inch (40.6-cm) depth behind mounting surface, and 3.5-inches (8.9-cm) height.

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3 Circuit Theory

3.1 Overview

This section explains operation of the IQ-USM 810 circuitry. Please refer to the IQ-USM 810 Reference Manual and IQ for Windows help files for information about the IQ-USM 810 features and operation.

The IQ-USM 810 consists of a universal power supply and 5 PWAs (see Figure 3.1). Each PWA has a particular function and initial troubleshooting should focus on attempting to determine which PWA is causing the malfunction. The PWAs are not unit-dependent, so a known good working PWA or unit can be used to pinpoint which PWA is faulty.

3.2 Power Supply

The universal power supply used by the IQ-USM 810 resides underneath the System Controller at the back of the unit. It receives AC input from the IEC filter located on the back panel and supplies +15V, -15V, and +5VDC to the System Controller. There is a fuse located on the supply and should be checked if the power supply is suspected. **Replace fuse with the same rated type only**.

3.3 Input

The input Printed Wire Assembly (PWA) is located at the back of the unit on the bottom. It offers eight balanced input audio channels via 3 pin connectors. Figure 3.2 shows the block diagram of the input PWA. The PWA is composed of the following sections: Input Analog Processing, Clock Signals, A/D Conversion, and DC Voltages.

3.3.1 Input Analog Processing

Each input channel has analog processing that provides filtering, line/mic switching, phantom power, optional input transformer isolation, and variable gain control. The balanced output of each analog channel is fed to a shared A/D converter.

All eight analog input channels are identical (Figure 3.3). The balanced analog input is RF filtered by FB100, FB101, C102, and C103. Capacitors C100 and C101 provide filtering to ensure that no noise from the unit goes out. R100-102 provide a 10 k ohm balanced input impedance in the line mode. Switch SW100 provides switching between Phantom, Line, and Mic modes.

• **Phantom:** SW100 shorts R103/C104 and R104/ C105 to allow the phantom DC voltage (+24VDC) to be available on the input connector. In addition, no gain reduction is provided on the input path. R105 & R106 allows current limiting of the phantom voltage.

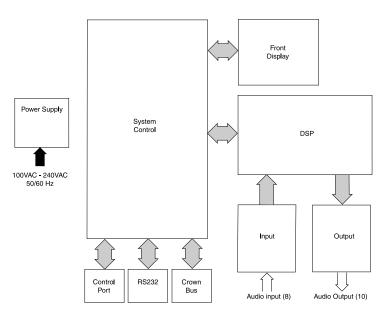


Figure 3.1 Overall Block Diagram

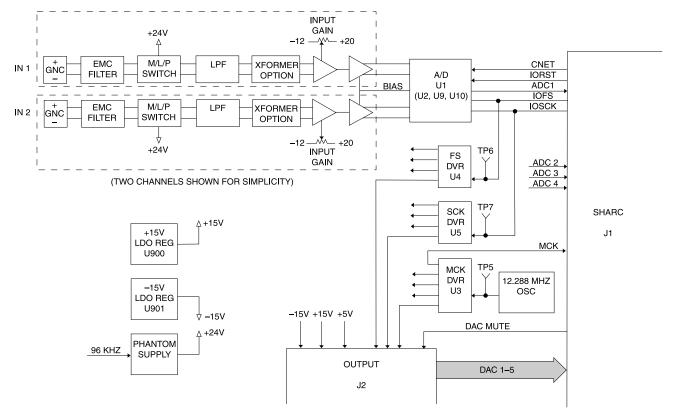


Figure 3.2 Input PWA Block Diagram

- Line: In Line mode, both the coupling capacitors (C104 & C105) and the series resistors (R103 & R104) are in the signal path. The capacitors block the phantom voltage from the input while the series resistors work as a voltage divider with R105 & R106 to provide a 17.7x (25 db) reduction in gain.
- **Mic:** The coupling capacitors are provided to block the phantom power, but the series resistors are shorted, allowing full gain through the input channel.

L100/C106 (L101/C107) provide an additional low-pass filter. C108 & C109 provide coupling to the variable gain preamp, except when the optional input isolation transformer (T100) is in place. Q100 and Q101 form a differential amplifier whose gain is adjusted by R111. U100B provides a filtered differential to single-ended conversion. U101C provides a gain reduction and biases the input signal to +2.2VDC. The output bias voltage of the A/D converter's pin 15 is fed to the op amp to bias the signal to the A/D's bias point. Lack of voltage at pin15 is an indication that the A/D converter is either in reset or is not being clocked.

3.3.2 Clock Signals

The master oscillator for the audio signals is Y1, which

generates a 12.288 MHz signal (256Fs). This clock is buffered by U3 and provides separate outputs to each of the A/D converters, the Output PWA for the DAC's, and to the SHARC PWA for distribution to the optional CobraNet[™] (CNET) PWA.

U1 normally acts as the generator of the Serial Clock and the Frame Clock. Serial Clock provides the timing of the serial audio data, 3.032 MHz (64Fs), and Frame Clock is the actual sampling clock frequency, 48 kHz (Fs). U1 monitors the CNET line from the SHARC PWA immediately out of reset. If the pin is low, it acts as a master source and begins providing Serial Clock and Frame Clock to U4 & U5 for buffering and distribution. If U1 senses a high on the CNET pin out of reset, it operates in slave mode like the other A/D converters and waits for Serial and Frame Clocks from the CNET PWA.

3.3.3 A/D Conversion

Each A/D converter processes 2 input channels. Full scale input signals are 2.82Vp-p and are sampled at a 48-kHz rate with 24-bit resolution. The converters are reset by the DSP's by the IO_RST line with a low being reset. The converters provide an I²S 32-bit time-division multiplexed data audio stream. The most significant 24 bits are linear PCM (two's complement) audio data followed by 8 bits of converter peak hold data that is un-

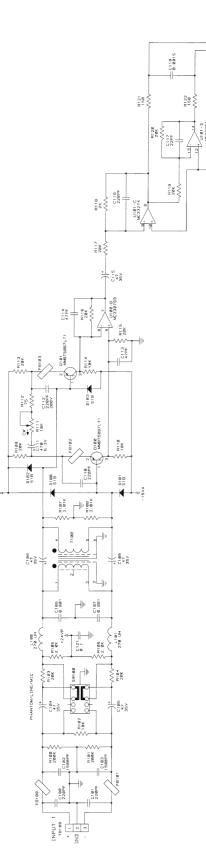


Figure 3.3 Input Analog Processing Circuitry (one channel)

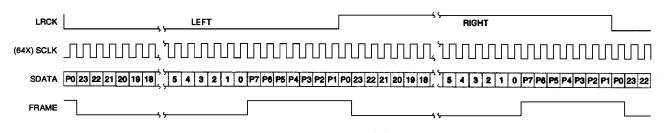


Figure 3.4 Audio Data and Clock Signals

used. This data is routed to the SHARC PWA for processing (ADC1-4). Figure 3.4 shows the audio data and its relationship to the clock signals.

3.3.4 DC Voltages

The Input PWA receives +/-15V and +5V from the System Controller. +15V from P900 is filtered and then regulated by a low dropout regulator, U900. R900 & R901 set the output voltage of the regulator at +14.5V. The -15V is processed similarly by U901. The +5V is filtered separately for the digital portion of the PWA than the analog side.

The phantom power voltage is generated by U902. +15V from P900 drives L904 while Q900 acts as a switch to charge L904. R905 acts as a current sense and limits the output current of the phantom power by reducing the voltage at currents over 50 mA. R904 & R908 set the output voltage at about +26V. U902 is driven from a 96-kHz clock provided by U10. This ensures that the switching supply is synced to the sampling frequency of the converters (2Fs). During reset, U902 will run at a slightly lower frequency due to the lack of an input clock.

Each DAC takes a 2 channel I²S 32-bit time-division multiplexed data audio stream from the SHARC PWA and converts it at a 24-bit, 48-kHz rate (Figure 3.4). Like the A/D converter, the audio output of the DAC is biased positive by 2.2V and a full signal is 2.82Vp-p.

3.4.3 Output Analog Processing

All ten analog output channels are identical (Figure 3.6). The balanced output of the DAC drives a unity gain amplifier that also filters the audio signal. The singleended output is fed to U101A which provides gain of either 1.2 (+10 dbu) or 3.9 (+20 dbu). Z100 is normally open, which provides a +20 dbu output for a full scale signal from the DAC. U101C provides a gain reduction of 2, then U101D inverts the signal and provides the other balanced output. An output impedance of 50 ohms is provided by the series resistors while the output ferrite bead provides RF filtering to ensure isolation. Optional isolation transformers are available on the Main outputs by removing the series resistors and placing the transformers.

3.4 Output

The Output PWA sits on top of the Input PWA and provides 10 audio outputs; Main A/B and AUX 1-8. The Output PWA receives all of its signals from the Input PWA via a 26-pin ribbon cable. Functionality can be divided into Clock Buffers, DAC Conversion, and Output Analog Processing. A block diagram of the Output PWA is shown in Figure 3.5.



3.4.1 Clock Buffers

Three clock buffers, U1-3, accept the Master (12.288 MHz), Serial (3.032 MHz), and Frame (48 kHz) clocks from the Input PWA and provide separate outputs to each of the five DAC's.

3.4.2 DAC Conversion

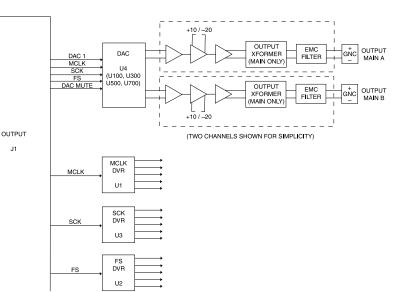


Figure 3.5 Output PWA Block Diagram

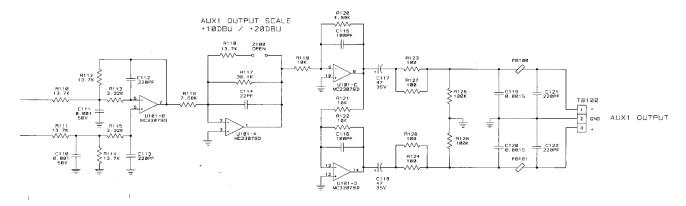


Figure 3.6 Output Analog Processing Circuitry (one channel)

3.5 SHARC Processing

The SHARC PWA sits in the center of the chassis and is the DSP engine that provides all of the signal processing for the unit. At the core of this processing is four Analog Devices ADSP-21065L SHARC 32-bit floating point DSP's running at an internal rate of 60 MHz. Full speed SDRAM interface is provided. Figure 3.8 shows the block diagram of the SHARC PWA. Features include a +3.3V Power Supply, Clocks, Reset, System Controller Interface, PLD's, Bus Arbitration, Bus Utilization, DSP Processing, and Audio Routing.

3.5.1+3.3V Power Supply

The entire SHARC PWA utilizes +3.3V by taking the +5V from P1 and converts it to +3.3V using a 300-kHz switching supply IC, U29. Q2 & Q3 work with U29 to control the charging of L1. R200 current senses the supply for overload protection. C27 & C113 provide output filtering of the supply.

3.5.2 Clocks

Oscillator Y1 provides a 30-MHz clock to buffer U3 for distribution to all SHARC's, SRAM, and other circuitry.

3.5.3 Reset

U8 monitors both the +5V and +3.3V power supplies and places the SHARC's into reset if either supply droops. In addition, the System Controller uses U8 to reset the SHARC's using pulldown via D1. Switch S1 allows manual reset of the SHARC's for troubleshooting. Q1 monitors the reset line to the SHARC's and lights LED E5 when the SHARC's are not in reset. The active low \RST line resets all four SHARC's and the PLD's (U9, U11, U23, U24, and U30).

3.5.4 System Controller Interface

Communications between the System Controller and SHARC processors occurs through a series of latches (U12-22) that provide address and data. PLD U23 re-

ceives commands from the System Controller (SH_A0-2, \HCS, HR/W) to load data and addresses into these latches. Once the data is in the latches, U23 communicates with Arbiter PLD U24 (\SYSBR, \SYSBG, \RD, \WR) to request access to the SHARC bus.

There are no non-volatile memory resources on the SHARC PWA, so the System Controller stores the SHARC firmware and downloads it during boot. The System Controller boots each SHARC in succession by loading code into SRAM and into each SHARC via the Interface. Once all four SHARC have been booted, they are allowed to begin audio processing.

If the System Controller encounters any problems during the boot process, it will display an error code on the front panel display. These error codes are shown in the table in Figure 3.7:

E1 E2 E3 E4 E5 E10 E11 E12 E13 E22 E23 E24	UART failed system controller power-on self test RAM failed system controller power-on self test Application code in flash failed CRC test Flash verify error Unrecoverable firmware error SHARC 0 interface hardware error (timeout, etc.) SHARC 1 interface hardware error (timeout, etc.) SHARC 2 interface hardware error (timeout, etc.) SHARC 3 interface hardware error (timeout, etc.) SHARC 0 software watchdog timeout SHARC 1 software watchdog timeout SHARC 2 software watchdog timeout
	SHARC 1 software watchdog timeout
E24	SHARC 2 software watchdog timeout
E25	SHARC 3 software watchdog timeout

Figure 3.7 System Controller Error Codes

Note: Errors 1-9 are for power-up self test and other miscellaneous errors. Errors 10-25 are errors related to the SHARC subsystem.

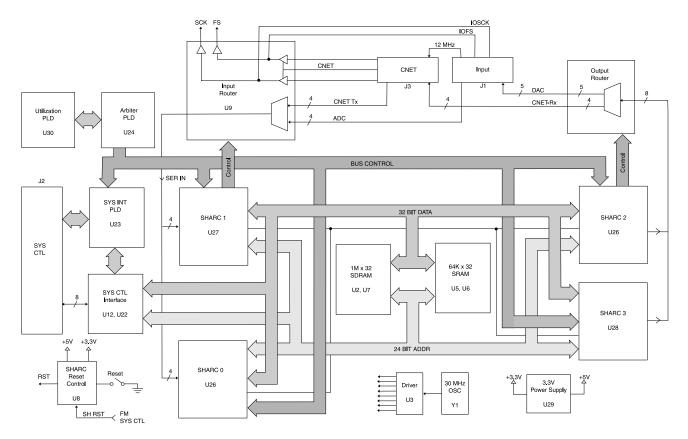


Figure 3.8 SHARC PWA Block Diagram

The System Controller will display the error code, then begin the boot process again. By watching the boot process on the front display, the error code can be read at the end of the boot process before the next boot begins.

3.5.5 PLDs

There are five Programmable Logic Devices (PLD) on the SHARC PWA (U9, U11, U23, U24, and U30). These IC's are programmed on the PWA and can be reprogrammed. They have common control and clock lines (ETCK, ETMS) and are daisy-chained by having each output (TDO) tied to the next PLD's input (TDI). P3 allows connection to the external PLD programmer.

3.5.6 Bus Arbitration

The 32-bit data and 24-bit address busses of the SHARC PWA are shared between the System Controller and the four SHARC processors. Shared SRAM memory (U5-6) is also available to all processors. The Arbiter PLD, U24, polices which has access to the bus through the use of control signals such as bus requests (\HBR, \SYSBR, \BR0-3), bus grants (\HBG, \SYSBG, \BG0-3), and SHARC chip selects (\CS0-3). It regulates which and when each processor has control of the bus to ensure there is no contention.

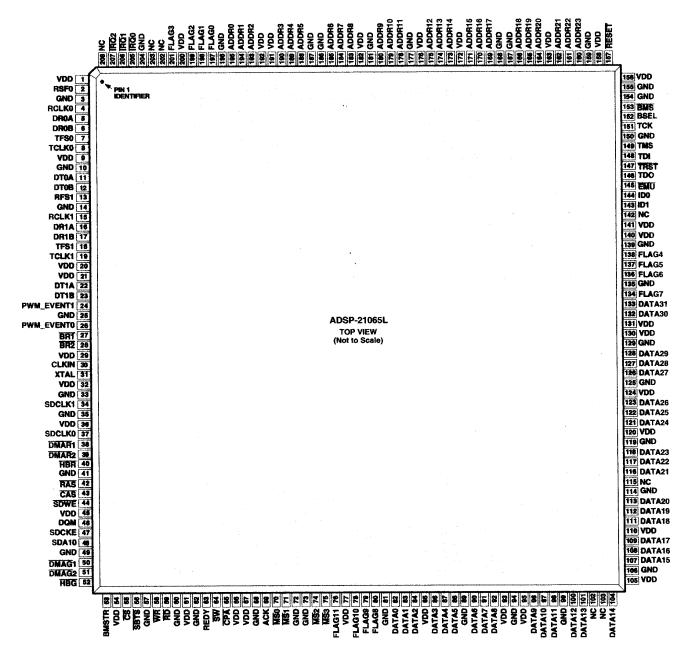
3.5.7 Bus Utilization

The Arbiter PLD also works with the Bus Utilization PLD, U30, to monitor each SHARC processor and determine how much of the available SHARC bus bandwidth each is using. The Arbiter tells the Utilization PLD on an individual bus cycle basis when each SHARC is on the bus (UTILIN0-5) and this information is fed to the individual SHARC's pulse width modulation inputs (UTILOUT0-3) for calculation of bus access time. This information is then reported to the System Controller when requested.

3.5.8 DSP Processing

As stated, the four SHARC processors (U25-28) are the core of the DSP engine. These processors are 208-pin Plastic Quad Flat Packs (PQFP) and the pinout is shown in Figure 3.9.

Each SHARC has a specific task in the audio processing chain. SHARC 0 (U25) processes the input audio for channels 1-4, while SHARC 1 (U27) is tasked with the input audio processing for channels 5-8. Two channel serial audio data from the Input Router, U9, is sent to the appropriate SHARC's serial port along with audio clock signals Serial Clock (SCK) and Frame Clock (FS). The input audio is stored by the SHARC until 16 samples are accumulated, then this audio "brick" is processed.





The time allotted for the SHARC to process this audio data is 330us (16 samples x 48-kHz). At that point the next audio brick has been collected and is ready for processing. The processed output audio brick is then deposited into SRAM (U5, U6). The audio bricks are then taken by the Output SHARC's for mixing and output processing. SHARC 2 (U26) processes Main A and Outputs 1-4 while SHARC 3 (U28) is responsible for Main B and Outputs 5-8. If additional delay is required, the bricks are allowed to remain in SDRAM before processing. The minimum delay through the audio processing is as follows:

 A/D Conversion 	66/US
• 5x "brick" delay	1667us
DAC Conversion	520us
 Total Delay 	2854us

This delay is constant and not dependent upon the particular processing being done.

SDRAM provides a high speed synchronous memory resource. Only the four SHARC processors have access to SDRAM and they are responsible for the access and maintenance of it. Each SHARC monitors the bus and accesses SDRAM when it is available. The SHARC blocks access to the bus through the use of the \SDLOCK pin during SDRAM transfers. SDRAM is utilized only for audio delay processing and has no firmware. If audio is available at the input SHARC's, but is not being seen by the output SHARC's, a good place to begin troubleshooting would be with SDRAM.

The System Controller periodically accesses the SHARC's to query about meter data. As discussed, the System Controller utilizes the Interface to ask and receive this data.

3.5.9 Audio Routing

Serial audio from the Input PWA is sent to the SHARC PWA for processing. ADC1-4 is fed to PLD U9 for routing to the input SHARC's, U25 & U27. Serial digital audio from the optional CobraNet PWA is also available as CNET_TX1-4. The Input Router sends the appropriate serial audio data to the input SHARC's as directed by the System Controller via SHARC 1. A serial control link (IN_MOSI, IN_SPICK) tells the Input Router which of the serial digital inputs are to be sent to each SHARC's serial ports.

The Input Router is also responsible for buffering the audio clocks. By sensing the CNET input from the CNET PWA, the Input Router can tell if the CNET PWA is con-

nected. If CNET is available, the CNET PWA is responsible to provide the Serial and Frame Clocks. The PLD accepts the CNET audio clocks and routes them to the SHARC's and Input PWA. If the CNET PWA is not connected, the audio clocks from the Input PWA are accepted and routed to the SHARC's.

The Output Router, U11, is responsible for sending the serial audio outputs of the output SHARC's to the appropriate place. Five output lines, DAC1-5, allow 10 audio channels to be sent to the Output PWA for DAC conversion. In addition, four output lines, CNET_RX1-4, allow 8 audio channels to be directed to the optional CNET PWA for inclusion onto the CNET system. The Output Router is programmed by SHARC 2 via OUT_MOSI & OUT_SPICK.

3.6 System Controller

The System Controller PWA sits on the one side of the chassis and is supported over the power supply. It is responsible for the coordination and communication with the outside world, non-volatile memory storage of all code, and various other functions. The System Controller's tasks includes Control Processing, RS232, Crown Bus loop, Real-Time Clock, Front Panel, and Control Port. Figure 3.10 shows a block diagram for the System Controller PWA.

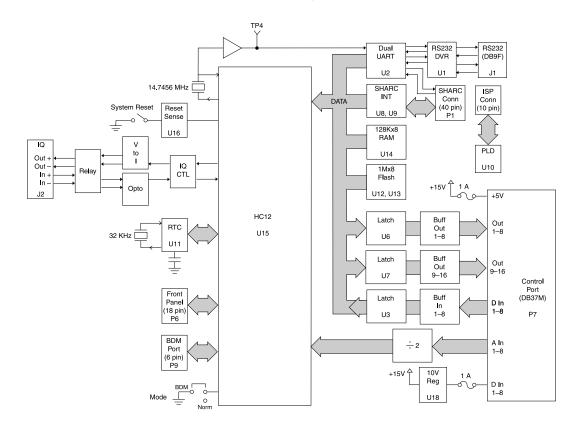


Figure 3.10 System Controller Block Diagram

3.6.1 Control Processing

The brain of the System Controller PWA is the Motorola 68HC12 microcontroller, U15. The 112pin QFP pinout is shown in Figure 3.11.

The HC12 has a Background Debug Mode (BDM) connection that allows access to the internal workings of the microcontroller. By connecting a pod to P9 and placing the HC12 in BDM mode, the HC12 can be accessed. This function is not used in normal operation or troubleshooting, and the BDM jumper should be left in the NORM position.

The HC12 provides all of the processing for the control of the IQ-USM 810. U16 provides sensing of the +5V power supply and brings the HC12 out of reset once the supply is stable. Switch S1 allows resetting of the controller externally. Q17 monitors the reset line and LED E1 is lit whenever the processor is not in reset.

Crystal Y2 provides the 14.7456-MHz clock for the

HC12. The clock is buffered by U5D and is provided to dual UART U2 for baud rate creation.

When the HC12 comes out of reset, it looks to the flash memory (U13) and begins its boot process. Due to the slow response of flash memory, normal code processing is carried out in SRAM. The HC12 copies its firmware out of flash memory into SRAM (U14) and once complete, jumps to SRAM and begins code processing. The HC12 initializes the dual UART and looks for a break on the RS232 input. If a break is detected, it activates its loader routine and waits for 'S' records from the RS232 port to be downloaded to flash memory. This process allows external programming of firmware revisions.

If no break is detected, the HC12 begins loading the SHARC firmware from flash memory into SHARC memory via the System Controller Interface. U8 and U9 provide buffering to the SHARC PWA via P1.

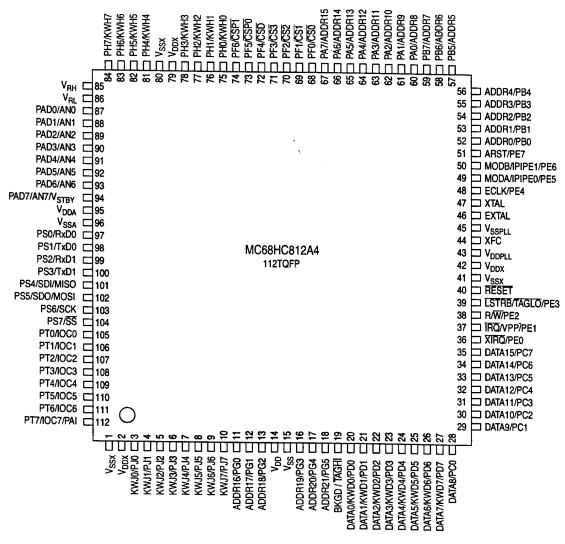


Figure 3.11 68HC12 microcontroller Pinout

The HC12 firmware uses a real time operating system (RTOS) to make efficient use of the HC12's processing capability. Various tasks are given priorities, and the RTOS supervises what task has control of the processor at any particular time.

3.6.2 RS232

As mentioned, the RS232 port is used to load firmware into flash memory. UART U2 provides the serial port interface to the HC12. The baud rate is programmed by the HC12 as directed by the front panel (19.2 k to 115 kbps) and the clock is generated from the 14-MHz clock. The 8-bit parallel interface to the UART is controlled by the U_RD (read), U_CS (chip select), and FLSH_WE (write) lines. Internal registers control various functions such as baud rate, fifo usage, etc. The serial I/O of the UART is buffered by RS232 Tx/Rx driver U1. This buffer takes the +5V and creates the +/–12V needed for RS232 levels. These signals are available on the DB9F connector, J1, which is available on the back panel of the chassis.

The other half of dual UART U2 is used as a serial interface to the optional CNET PWA. It connects to the CNET PWA via SHARC connector P1.

3.6.3 Crown Bus Loop

The HC12 has two serial ports and one of them is used for the interface to the Crown Bus loop hardware. This is a fixed 38.4-kbps baud rate and uses a dual RJ45 connector J2 to the back panel. In normal operation, data detected at the input of the Crown Bus loop hardware is sent back out via U19A & B, U20B, and U21A. When the HC12 wants to communicate, MSTR0 is pulled high and the TX0 goes out to the Crown Bus loop. R142 provides 20 mA of current to the OUT+ line during normal operation. Communication occurs by interrupting the OUT– path via D4 and U21A.

The input of the Crown Bus loop is buffered by optoisolator U17 which senses the 20-mA current and sends the signals to the HC12 (RX0) and directs it back out the Crown Bus loop via U19A.

Relay K1 provides paths to the I/O circuitry while the IQ-USM 810 is powered. When the unit is turned off, the relay allows the Crown Bus loop to pass through the unit to prevent Crown Bus loop communication from being interrupted.

3.6.4 Real Time Clock

U11 is a Real Time Clock (RTC) IC that provides timing to the HC12 for scheduling of real time events. U11 has an internal oscillator provided by 32-kHz crystal Y1. The HC12 communicates with the RTC via a serial interface composed of RTCLK (serial clk), RTC (data), and RTC_CS (chip select) and periodically queries the RTC to get or set the time.

Capacitor C25 is a 1F supercap that allows the RTC to continue to keep time after the unit is powered down. The RTC senses the loss of power and automatically switches to the capacitor to provide power. The capacitor can keep the RTC running for up to 45 days without external power. While the unit is powered, the RTC trickle charges the capacitor.

3.6.5 Front Panel

The HC12 interfaces the Front Display PWA via P6. The three front panel switches are sensed by the HC12 and display of the front panel LED's are controlled via a serial interface; SCK, MOSI, MISO, and LED_CS. Two display IC's on the Front Display PWA interface both the discrete LED's and the triple 7-segment display.

3.6.6 Control Port

The control port interface allows external signals or events to control objects within the box. Additionally, outputs allow signaling of object status to the outside. The DB37M connector P7 provides back panel access. +5V, +10V, and GND is also provided via the connector. Regulator U18 takes the +15V and provides +10V out. The external power is protected by resettable fuses limited to 1 A.

The HC12 interfaces the output buffers through latches U6 and U7. These 16 outputs drive NPN transistors that provide 10V @ 10 mA to the outside. Ferrite beads and transient voltage suppressors (TVS) protect the output circuits.

The digital inputs are buffered by NPN transistors that allow current drive of the inputs. Voltages up to +25VDC can be used to drive these inputs. The transistor buffers drive a latch that the HC12 polls to collect the input status. U4 is used by the HC12 to address the particular I/O latch it wishes to query.

The analog inputs allow a 0 to +10VDC input to be digitized by the HC12's eight 8-bit A/D converters. A voltage divider ensures that the HC12's inputs will not be overdriven.

3.7 Front Display

The Front Display PWA has the three front panel switches, triple 7-segment display, Input Status LED's, Enable, Data, and Interface LED's. The three switches are sensed and processed directly by the HC12 on the System Controller PWA. The two IC's, U1 & U2, control all of the front panel LED's by switching the LED's at a 20%, 1-kHz rate. The serial control from the HC12 tells the IC's which LED's to light.

4 Maintenance

4.1 General Information

This chapter provides test procedures to be used to verify operation of this IQ component. Minimum specifications for proof of performance are given with each procedure. Procedures are in suggested format and the exact test need not be performed; however, the test conditions and results must be verified for proof of performance. These tests, though meant for verification and alignment, may also be very helpful in troubleshooting. For best results, the tests should be performed in order.

4.2 Definitions

- IQ Ucode Protocol: The Protocol used by IQ2 products for communication on the Crown IQ Bus.
- DA: IQ Ucode Device Address. A part of the Ucode string that identifies it as pertaining to a particular device. The DA for the IQ-USM 810 is set by the front panel controls. At first power up the IQ-USM 810 defaults to address \$01.
- **DT:** IQ Ucode Device Type Identifier. A part of an Ucode string that identifies it as pertaining to a particular type of Ucode component. The DT for the IQ-USM 810 is \$19.
- **AK:** IQ Message Acknowledgment. This byte is present in all Ucode device to host messages. It indicates if the last host to device message was correctly formatted.

- CT: IQ Message data byte count. A part of the IQ string that indicates the number of bytes in its message portion. Note: This byte is automatically inserted when using IQ Util in enhanced mode.
- **CS:** Ucode Message Checksum. The last byte of a Ucode string containing the check sum of the entire message. Note: This byte is automatically inserted when using IQ Util in enhanced mode.

4.3 Required Test Equipment

Audio sine-wave generator (Output amplitude accuracy better than ± 0.5 dB)

Oscilloscope Audio THD+N analyzer

True RMS AC voltmeter

DC voltmeter

Audio multiplexer (balanced) or other means of switching the audio generator to the eight mixer inputs.

Audio multiplexer (balanced) or other means of switching the ten mixer outputs to the Audio analyzer and RMS voltmeter.

PC running applicable IQ Ucode compatible software Crown IQ Interface *IQ-INT II* or equivalent

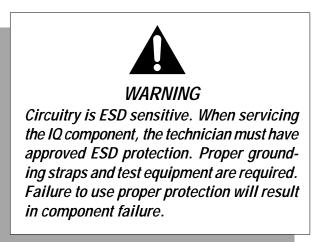
Crown IQ standard 2000' test cables

Method of generating TTL Control Port inputs.

Method of generating analog Control Port inputs.

Method of measuring the Control Port outputs.

Method of measuring the phantom power outputs.



4.4 IQ Message String Syntax

4.4.1 Host to Device Messages

The following syntax is used for host to device messages:

Send: XX XX XX XX XX; Description

XX: A byte of the message explicitly given in hexadecimal.

XX: A byte of the message as defined by the two-letter codes in Section 4.2.

Description: A short phrase to indicate the function of the message string. The description is added for reference only. It is not sent as part of the Ucode message.

4.4.2 Device to Host Messages

The following syntax is used for device to host messages.

Return String: XX XX XX XX XX

XX: A byte of the message explicitly given in hexadecimal.

XX: A byte of the message as defined by the two-letter codes in Section 4.2.

XX: A byte of the returned message that requires range testing in accordance to the associated test.

4.5 Standard Initial Conditions

The following tests assume this setup unless stated otherwise.

Unit under test built and programmed as documented, less top cover and labels.

Preset 32 loaded

Inputs set to line mode.

Input potentiometers set to 0 dB.

Unit under test powered by 120VAC

Unit under test connected to test computer via the RS232 connector with constant IQ communication at 115.2 K baud.

Output Impedance of Audio Sine-wave Source: 50 W balanced.

Audio Output Load: $\geq 10 \text{ kW}$ balanced.

4.6 Test Procedures

4.6.1 LOAD PRESET 32

Note: Preset 32 is the factory default test preset. This preset sets the audio paths straight through (no gain, filters, or processing) to their respective AUX outputs. Main outputs A and B are driven from inputs 1 and 2 respectively.

Procedure:

Send the select preset 32 command: Send: DA DT CT B2 7F 09 20 CS; Select preset 32 Send the load preset command:

Send: DA DT CT B4 7F 09 01 CS; Load preset

Note: The load preset command must be sent within approximately 2 seconds of the select preset command.

Note: Preset 32 may also be selected using the front panel controls.

1) Use the " \land " and " \checkmark " buttons to select preset 32. (Display shows P32.)

2) Press "SEL" button.

4.6.2 OUTPUT NOISE

Spec: LINE mode: ≤ -75 dBu and ≥ -80 dBu, 22 Hz to 22 kHz bandwidth.

Note: The test and printed specifications do not match. The printed specifications are for an "A" weighted 20-Hz to 22-kHz bandwidth. Production tests do not use "A" weighted filtering.

Initial Conditions: Inputs terminated at \leq 50 W balanced. Bandwidth = 22 Hz to 22 kHz.

Procedure: Verify each main and AUX output meets spec.

4.6.3 FREQUENCY RESPONSE

Spec: +0.1, -0.6 dB from 20 Hz to 20 kHz.

Initial Conditions: Normalized to a reference of a 1 kHz, 0 dBu signal.

Procedure:

Verify each main and AUX output meets spec with one of the following methods:

A 10+ point, logarithmically spaced, sweep.

Testing at these frequencies: 20 Hz, 100 Hz, 500 Hz 1 kHz, 5 Hz, 10 kHz, and 20 kHz.

4.6.4 HARMONIC DISTORTION

Spec: < 0.030 % and > 0.001 % THD+N, with a 22 Hz to 22 kHz bandwidth.

Initial Conditions: Input signal: 1 kHz, 0 dBu.

Procedure: Verify each main and AUX output meets spec.

4.6.5 COMMON MODE REJECTION

Spec: >40 dB at 60 Hz in line mode, 22 Hz to 22 kHz bandwidth.

Procedure:

Input a 60 Hz +18 dBu balanced signal.

Monitor the associated AUX output with a 22 Hz to 22 kHz bandwidth and set the reference.

Change the input to common mode (same frequency and amplitude)

Verify the associated AUX output is attenuated at least 40 dB below reference with a 22 Hz to 22 kHz bandwidth.

4.6.6 HEAD ROOM / INPUT CLIP LEVEL

Spec: < 1 % THD+N, with a +19.9 dBu input signal. **Initial Conditions:** Input signal: 1 KHz, +19.9 dBu. **Procedure:** Verify each main and AUX output meets spec.

4.6.7 INPUT POTENTIOMETER

Spec: ± 2 dB at the –12, and +20 dB settings. **Initial Conditions:** Input signal: 1 kHz, 0 dBu in to all inputs.

Procedure: Verify each input potentiomenter by perfoming the following:

Set all potentiometers full counter clockwise.

Verify each AUX output is $-13 \pm 2 \text{ dBu}$.

Set potentiometer full clockwise.

Verify each AUX output is $+20.5 \pm 2$ dBu.

Return potentiometer to the zero setting.

4.6.8 PHANTOM SUPPLY

Spec: 25.75 ± 1 VDC unloaded, between each signal pins (+, –) and chassis ground.

Initial Conditions: Remove all input signals and impedences. Set all inputs to phantom mode.

Procedure: For each input, Verify the DC voltage on the "+" and "-" pins referenced to chassis ground pin on all audio inputs.

4.6.9 CONTROL PORT OUTPUT VOLTAGE PINS

Spec: Pins at rated voltage $\pm 10\%$.

Procedure:

Verify voltage between pins 9 and 10 of the control port is 5 $\pm 0.25 \text{VDC}.$

Verify voltage between pins 29 and 28 of the control port is 10 $\pm 0.5 \text{VDC}.$

4.6.10 CONTROL PORT LOGIC INPUTS

Spec: TTL level inputs are detected on the control port inputs.

Procedure:

Inject a TTL high on the odd numbered control port logic inputs (IN1, IN3, IN5, and IN7) and leave the even numbered inputs open.

Use the following commands to read the control port inputs and verify the odd numbered inputs return \$01 and the even inputs return \$00:

Send: DA DT CT 80 50 0A CS; Get Control Port Digital Input 1

Return String: DA DT AK CT 80 50 0C IN1 CS

Send: DA DT CT C0 50 0A CS; Get Control Port Digital Input 2

Return String: DA DT AK CT C0 50 0C IN2 CS Send: DA DT CT 80 51 0A CS; Get Control Port Digital Input 3

Return String: DA DT AK CT 80 51 0C IN3 CS

Send: DA DT CT C0 51 0A CS; Get Control Port Digital Input 4

Return String: DA DT AK CT C0 51 0C IN4 CS Send: DA DT CT 80 52 0A CS; Get Control Port Digital Input 5

Return String: DA DT AK CT 80 52 0C IN5 CS Send: DA DT CT C0 52 0A CS; Get Control Port Digital Input 6

Return String: DA DT AK CT C0 52 0C IN6 CS Send: DA DT CT 80 53 0A CS; Get Control Port Digital Input 7

Return String: DA DT AK CT 80 53 0C IN7 CS

Send: DA DT CT C0 53 0A CS; Get Control Port Digital Input 8

Return String: DA DT AK CT C0 53 0C IN8 CS

Inject a TTL high on the even numbered control port logic inputs (IN2, IN4, IN6, and IN8) and leave the odd numbered inputs open.

Use the above commands to read the control port inputs and verify the even numbered inputs return \$01 and the odd inputs return \$00.

4.6.11 CONTROL PORT LOGIC OUTPUTS

Spec: Control Port Logical Outputs individually switch between On and Off.

Procedure:

Use the following commands to set the odd control port logical outputs and the even outputs off:

Send: DA DT CT 80 58 09 01 CS; Set Control Port Digital Output 1 On.

Send: DA DT CT C0 58 09 00 CS; Set Control Port Digital Output 2 Off.

Send: DA DT CT 80 59 09 01 CS; Set Control Port Digital Output 3 On.

Send: DA DT CT C0 59 09 00 CS; Set Control Port Digital Output 4 Off.

Send: DA DT CT 80 5A 09 01 CS; Set Control Port Digital Output 5 On.

Send: DA DT CT C0 5A 09 00 CS; Set Control Port Digital Output 6 Off.

Send: DA DT CT 80 5B 09 01 CS; Set Control Port Digital Output 7 On.

Send: DA DT CT C0 5B 09 00 CS; Set Control Port Digi-

tal Output 8 Off.

Send: DA DT CT 80 5C 09 01 CS; Set Control Port Digital Output 9 On.

Send: DA DT CT C0 5C 09 00 CS; Set Control Port Digital Output 10 Off.

Send: DA DT CT 80 5D 09 01 CS; Set Control Port Digital Output 11 On.

Send: DA DT CT C0 5D 09 00 CS; Set Control Port Digital Output 12 Off.

Send: DA DT CT 80 5E 09 01 CS; Set Control Port Digital Output 13 On

Send: DA DT CT C0 5E 09 00 CS; Set Control Port Digital Output 14 Off.

Send: DA DT CT 80 5F 09 01 CS; Set Control Port Digital Output 15 On.

Send: DA DT CT C0 5F 09 00 CS; Set Control Port Digital Output 16 Off.

Verify the odd control port outputs are on (> 3 volts) and the even control port outputs are off (<1 volts).

Use the following commands to set the even control port logical outputs on and the odd outputs off:

Send: DA DT CT 80 58 09 00 CS; Set Control Port Digital Output 1 Off.

Send: DA DT CT C0 58 09 01 CS; Set Control Port Digital Output 2 On.

Send: DA DT CT 80 59 09 00 CS; Set Control Port Digital Output 3 Off.

Send: DA DT CT C0 59 09 01 CS; Set Control Port Digital Output 4 On.

Send: DA DT CT 80 5A 09 00 CS; Set Control Port Digital Output 5 Off.

Send: DA DT CT C0 5A 09 01 CS; Set Control Port Digital Output 6 On.

Send: DA DT CT 80 5B 09 00 CS; Set Control Port Digital Output 7 Off.

Send: DA DT CT C0 5B 09 01 CS; Set Control Port Digital Output 8 On.

Send: DA DT CT 80 5C 09 00 CS; Set Control Port Digital Output 9 Off.

Send: DA DT CT C0 5C 09 01 CS; Set Control Port Digital Output 10 On.

Send: DA DT CT 80 5D 09 00 CS; Set Control Port Digital Output 11 Off.

Send: DA DT CT C0 5D 09 01 CS; Set Control Port Digital Output 12 On.

Send: DA DT CT 80 5E 09 00 CS; Set Control Port Digital Output 13 Off

Send: DA DT CT C0 5E 09 01 CS; Set Control Port Digital Output 14 On.

Send: DA DT CT 80 5F 09 00 CS; Set Control Port Digital Output 15 Off.

Send: DA DT CT C0 5F 09 01 CS; Set Control Port Digital Output 16 On.

Verify the even control port outputs are on (> 3 volts) and the odd control port outputs are off (<1 volts).

Use the following commands to set the even control port logical outputs off:

Send: DA DT CT C0 58 09 00 CS; Set Control Port Digital Output 2 Off.

Send: DA DT CT C0 59 09 00 CS; Set Control Port Digital Output 4 Off.

Send: DA DT CT C0 5A 09 00 CS; Set Control Port Digital Output 6 Off.

Send: DA DT CT C0 5B 09 00 CS; Set Control Port Digital Output 8 Off.

Send: DA DT CT C0 5C 09 00 CS; Set Control Port Digital Output 10 Off.

Send: DA DT CT C0 5D 09 00 CS; Set Control Port Digital Output 12 Off.

Send: DA DT CT C0 5E 09 00 CS; Set Control Port Digital Output 14 Off.

Send: DA DT CT C0 5F 09 00 CS; Set Control Port Digital Output 16 Off.

4.6.12 CONTROL PORT ANALOG INPUTS

Spec: Each input measures 0, 5, and 10 VDC within 10%.

Procedure:

Inject 10 VDC into the odd Control Port Analog Inputs. Inject 5 VDC into the even Control Port Analog Inputs. Use the following commands to verify the odd analog inputs are between \$FF and \$E6:

DA DT CT 81 54 0A CS; Get Control Port Analog Input 9 Return String: DA DT AK CT 81 54 0C IN9 CS

Send: DA DT CT 81 55 0A CS; Get Control Port Analog Input 11

Return String: DA DT AK CT 81 55 0C IN11 CS Send: DA DT CT 81 56 0A CS; Get Control Port Analog Input 13

Return String: DA DT AK CT 81 56 0C IN13 CS Send: DA DT CT 81 57 0A CS; Get Control Port Analog Input 15

Return String: DA DT AK CT 81 57 0C IN15 CS

5.13.4. Use the following commands to verify the even analog inputs are between \$98 and \$66:

Send: DA DT CT C1 54 0A CS; Get Control Port Analog Input 10

Return String: DA DT AK CT C1 54 0C IN10 CS

Send: DA DT CT C1 55 0A CS; Get Control Port Analog Input 12 Return String: DA DT AK CT C1 55 0C IN12 CS Send: DA DT CT C1 56 0A CS; Get Control Port Analog Input 14 Return String: DA DT AK CT C1 56 0C IN14 CS Send: DA DT CT C1 57 0A CS; Get Control Port Analog Input 16 Return String: DA DT AK CT C1 57 0C IN16 CS Open drive to all Control Port Analog Inputs. Use the following commands to verify all the analog inputs are between \$19 and \$00: Send: DA DT CT 81 54 0A CS; Get Control Port Analog Input 9 Return String: DA DT AK CT 81 54 0C IN9 CS Send: DA DT CT C1 54 0A CS; Get Control Port Analog Input 10 Return String: DA DT AK CT C1 54 0C IN10 CS Send: DA DT CT 81 55 0A CS; Get Control Port Analog Input 11 Return String: DA DT AK CT 81 55 0C IN11 CS Send: DA DT CT C1 55 0A CS; Get Control Port Analog Input 12 Return String: DA DT AK CT C1 55 0C IN12 CS Send: DA DT CT 81 56 0A CS; Get Control Port Analog Input 13 Return String: DA DT AK CT 81 56 0C IN13 CS Send: DA DT CT C1 56 0A CS; Get Control Port Analog Input 14 Return String: DA DT AK CT C1 56 0C IN14 CS Send: DA DT CT 81 57 0A CS; Get Control Port Analog Input 15 Return String: DA DT AK CT 81 57 0C IN15 CS Send: DA DT CT C1 57 0A CS; Get Control Port Analog Input 16 Return String: DA DT AK CT C1 57 0C IN16 CS 4.6.13 DISPLAY TEST Spec: All LEDs and LED segments individually light. Procedure: Start the display test mode: Send: DA DT CT 80 06 09 03 CS; Select test display mode. Verify display lights all LEDs according to the test pattern. (See Section 4.9 for test pattern)

Stop the display test mode:

Send: DA DT CT 80 06 09 02 CS; Select test display mode.

4.6.14 PUSHBUTTON TEST

Spec: Pushbuttons operational.

Procedure:

Use one of the following two methods to test the three front panel pushbuttons:

Method 1 (Manual Verification)

Hold in the "SEL" button and verify the IQ-USM 810 display cycles between the three display modes (preset, address, and baud rate).

Use the "SEL" button to select the preset mode

Press the " $\hfill ^{\prime\prime}$ button and verify the preset display increases its number.

Press the " \vee " button and verify the preset display decreases its number.

Method 2 (Auto Verification)

Use the following IQ command to continually poll the switch status object:

Send: DA DT CT C1 05 0A CS; Return button status Return String: DA DT AK CT C1 05 0C BTN CS

Press the "SEL" button and very the object returns \$01. Press the " \land " button and verify the object returns \$02. Press the " \checkmark " button and verify the object returns \$04.

4.6.15 REAL TIME CLOCK

Spec: The RTC can be set, can be read, keeps time, and power backup is operational.

Note: The real time clock Ucode object uses a four-byte time code. The code is the number of seconds from 12:00AM on January 1, 1970. The data bytes are returned least significant first.

Example: For 3:34:14 PM on July 21,1999:

1999-1970 = 29 years =	914,544,000 seconds
29 years / 4 = 8 leap year days=	691,200 seconds
July 1 = (31+28+31+30+31+30)=	
181 days =	15,638,400 seconds
21st = 21 days =	1,814,400 seconds
PM = 12 hours =	43,200 seconds
3:34:14 =	12,854 seconds
Time from 12:00 AM Jan. 1,1970=	932,744,054 seconds

932,744,054 converted to hex = \$37988B76 \$37988B76 broken into bytes, LSB first = \$76 \$8B \$98 \$37.

Note: The real time clock is powered from a 1 mF capacitor (C25) when the unit is unpowered. This capacitor must be charged above 2.2 volts for the real time clock to operate without unit power. Normal charging time is 14 minutes. To fast charge the capacitor short TP7 and TP8 for at least 4.2 minutes. Remove jumper prior to a power cycle to prevent discharging the capacitor.

Procedure:

Set the clock to the current time with the clock write command.

Send: DA DT CT 80 03 09 CK4 CK3 CK2 CK1 CS; Set real time clock

Where CK1, CK2, CK3, and CK4 are the four bytes of the time code.

5.16.2. Allow the IQ-USM810 to operate for > 100 seconds.

Note: other tests may be performed during this time.

Remove TP7-TP8 jumper if in use.

Perform a power cycle on the IQ-USM810.

Note; this may be the same power cycle used for the IQ Bus Dropout Relay Operation test.

Read the clock and compare its time with the current time.

Send: DA DT CT 80 03 0A CS

Return String: DA DT AK CT 80 03 0C CK4 CK3 CK2 CK1 CS

Where CK1, CK2, CK3, and CK4 are the four bytes of the time code.

The two times must be within one second.

4.6.16 IQ BUS MASTER CONTROL

Spec: Hardware can force the IQ Bus high. (Open the loop)

For this test, perform IQ communication via the Crown bus.

Procedure:

Send the Master IQ Bus command:

Send: DA DT CT C0 05 09 01 CS; Master IQ bus (Open loop)

Verify no echo responses on subsequent IQ commands: Suggested test string: 01 02 03 04 FE FF

Send the normal IQ Bus command...

Send: DA DT CT C0 05 09 00 CS; Unmaster IQ bus (Close loop)

Verify echo responses on subsequent IQ commands: Suggested test string: 01 02 03 04 FE FF

Return string: 01 02 03 04

4.6.17 IQ BUS DROPOUT RELAY OPERATION

Spec: IQ Bus remains connected when power is removed.

For this test, perform IQ communication via the Crown bus.

Procedure:

Power down IQ-USM 810.

Verify IQ messages pass through the unit under test: Suggested test string: 01 02 03 04 FE FF Return string: 01 02 03 04 Reapply power to IQ-USM 810.

4.6.18 IQ BUS HUB / DAISY CONNECTIONS

Spec: Both types on IQ Bus connections are functional. Note: This product has two types of IQ bus connections. The Daisy type connects the input in one port of the dual RJ-45 and the output in the other. The Hub type connects both input

For this test, perform IQ communication via the Crown bus.

Procedure:

and output to one RJ-45 port.

For each type of bus connection (Daisy, Hub), perform at least one of the above tests that require a test on the IQ response.

4.6.19 SHIPPING STATE RESTORATION

Spec: The IQ-USM 810 is returned to the factory defaults.

Note: This section may be skipped when testing a service unit if it is known that the customer wishes to retain the mixers settings and presets.

Note: The following steps must be performed as part of the final power down sequences to ensure the IQ-USM 810 has been returned to factory defaults and presets. If the IQ-USM 810 is re-powered before packing, the following procedure should be repeated.

Procedure:

Send the select preset 0 command:

Send: DA DT CT B2 7F 09 00 CS; Select preset 0

Send the load preset command:

Send: DA DT CT B4 7F 09 01 CS; Load preset

Note: The load preset command must be sent within approximately 2 seconds of the select preset command.

Send the select preset 32 command:

Send: DA DT CT B2 7F 09 20 CS; Select preset 32

Send the load preset command:

Send: DA DT CT B4 7F 09 01 CS; Load preset

Note: The load preset command must be sent within approximately 2 seconds of the select preset command.

Note: Preset 0 and 32 may also be selected using the front panel controls.

1) Use the " \land " and " \lor " keys to select preset 0. (Display shows P00.)

2) Press "SEL" switch.

3) Use the " \wedge " and " \vee " keys to select preset 32. (Display shows P32.)

4) Press "SEL" switch.

4.6.20 CHASSIS GROUND

Spec: Ground conductor of the power inlet is connected to chassis ground.

Note: This test to be completed after the complete product assembly.

Procedure:

Verify power inlet less than 1 W between connector ground and chassis.

Recommended chassis test points:

RS232 Connector shell or screw locks, Multi-Function Control Port shell of screw locks or Crown bus connector shield.

4.4.21 HI-POT

Spec: Power Supply withstands Hi-Pot spikes.

Procedure: Verify unit allows no breakdown leakage current with a 1-second, 1.2-kV Hi-Pot from AC mains (Hot and Neutral) to earth ground.

4.7 Typical Measurements

Output Noise 20 Hz to 20 KHz bandwidth, line mode: –77 dBu

Frequency Response 20 Hz to 20 KHz, referenced to 1 KHz, line mode: –0.27 dB.

Harmonic Distortion THD+N, at 1 KHz, 20 Hz to 20 KHz bandwidth, line mode, 0 dBu input: 0.013 %.

Common Mode Rejection at 60 Hz, line mode: –66.5 dB.

Head Room / Input Clip Level highest input level before 1 % TDH+N, Line mode: -.131 % TDH+N @ +20 dBu.

Input Potentiometer at 1 KHz, 0 dBu input:

Potentiometer

at -12 setting: -12.85 dB at +20 setting: +20.43 dB

Phantom Supply between each signal pin ("+ and "-") and ground of each input: 25.77 VDC

Control Port Output Voltage Pins

5 volt supply (between pins 9 and 10): 4.92 VDC 10 volt supply (between pins 29 and 28): 10.26 VDC

4.8 Test/Debug Objects

Objec	t Number	
Dec	Hex/ASN1	Description / Command string format
704	\$2C0 \$C0 \$05	Bus Master: Allows manual control of the bus master function. (Normally an internal func- tion of the Ucode protocol). With this object set, no IQ bus, communication passes through the IQ-USM 810 Crown bus port.
		Send: DA DT CT C0 05 09 01 CS; to master the IQ Bus, open the loop Response: None
		Send: DA DT CT C0 05 00 CS; to unmaster the IQ Bus, close the loop
		Response: DA DT AK CT 00 CS; standard ACK
768	\$300 \$80 \$06	Display Test Mode: Cycles each section of the display through a known sequence allowing the operator to verify that all segments and indicators are functional. See Section 4.7 for known sequence.
		Send: DA DT CT 80 06 09 01 CS; To force the preset LED on
		Response: DA DT AK CT 00 CS; standard ACK
		Send: DA DT CT 80 06 09 00 CS; To set the preset LED in normal mode
		Response: DA DT AK CT 00 CS; standard ACK
705	\$2C1 \$C1 \$05	Pushbutton Test: Reads a single byte that is bit mapped to indicate a pushbutton depres- sion (bit 0 = "SEL" depressed, bit 1 ="∧" depressed, bit 2 = "∨" depressed): Send: DA DT CT C1 05 0A CS, To get data Response: DA DT AK CT C1 05 0C BTN CS



4.9 Display Test Patterns

Figure 4.1 shows display test patterns for the IQ-USM 810. For each display section, the sequence starts at the top and cycles to the bottom, and then repeats.

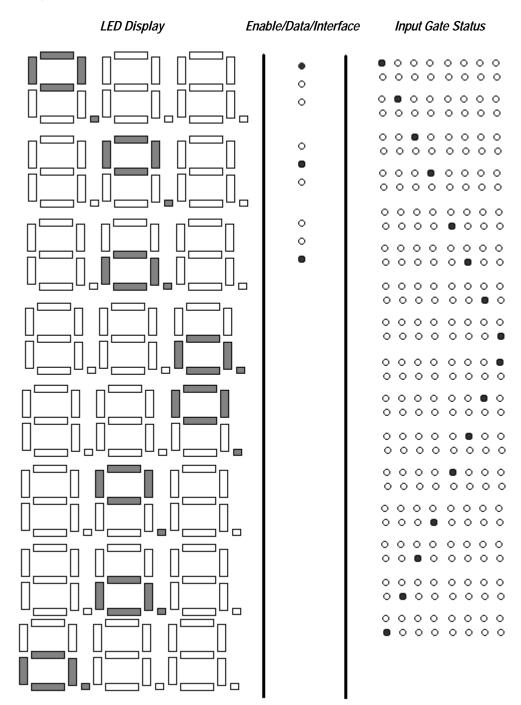


Figure 4.1 Display Test Patterns

4.10 Error Codes

Figure 4.2 shows error codes for the IQ-USM 810.

E01	UART failed system controller power-on self test	
E02	RAM failed system controller power-on self test	
E03	Application code in flash failed crc test	
E04	Flash verify error	
E05	Unrecoverable firmware error	
E10	Sharc 0 interface hardware error (timeout, etc.)	
E11	Sharc 1 interface hardware error (timeout, etc.)	
E12	Sharc 2 interface hardware error (timeout, etc.)	
E13	Sharc 3 interface hardware error (timeout, etc.)	
E14	Sharc 0 failed SRAM test	
E15	Sharc 1 failed SRAM test	
E16	Sharc 2 failed SRAM test	
E17	Sharc 3 failed SRAM test	
E18	Sharc 0 failed SDRAM test	
E19	Sharc 1 failed SDRAM test	
E20	Sharc 2 failed SDRAM test	
E21	Sharc 3 failed SDRAM test	
E22	Sharc 0 software watchdog timeout	
E23	Sharc 1 software watchdog timeout	
E24	Sharc 2 software watchdog timeout	
E25	Sharc 3 software watchdog timeout	

Figure 4.2 IQ-USM 810 Error Codes

4.11 Troubleshooting FAQs

The following FAQs are provided to answer a few questions that may arise in the course of servicing the IQ-USM 810.

Q. What does the display indicate during power up?

A. When the IQ-USM 810 initially powers up, it displays the following:

dSP...810...SH0...SH1...SH2...SH3...Pxx.

This is the boot sequence for the internal processors. Initially, the System Controller processor boots, then it sequentially boots the four DSP processors (SH0-3). After the System Controller processor successfully boots all four DSP processors, audio processing is allowed to begin.

Q. When I power up the IQ-USM 810, it continues to boot. What's up?

A. If the System Controller processor encounters an error

during the boot process, it terminates the process at that point, displays an error code on the front panel, then reboots. See Section 4.10 for a list of error codes.

Q. What is the most common error?

A. Hopefully, no error is common. When "E22" is displayed as the error code, it is most likely due to a loss of digital audio clocking from the Input board. The short 26-pin ribbon cable carries digital audio and clocking from the Input board to the SHARC board. Check for creation of Master Clock (12.288 MHz), Serial Clock (3.032 MHz), and Frame Clock (48 kHz) by the Input board.

Q. How do I reboot the IQ-USM 810?

A. There are a couple of different ways to reboot the IQ-USM 810. The most straightforward way is to remove the AC power cord from the IEC320 connector on the rear panel, then replace the cord. The loss of AC power will cause the IQ-USM 810 to automatically reboot. If the top cover is off the unit, switch S1 on the System Controller board (the long board with the rear panel DB9F and DB37M connectors) will reboot the unit. The LED located next to the switch is lit when the unit is not in reset.

Q. I notice there is a switch on the SHARC board. What is it for?

A. The switch on the SHARC board resets the SHARC processors independently of the System Controller. The problem with using this switch to reset the SHARC processors is they need the System Controller to reboot them. In practice, the SHARC board reset switch is not used. The LED by the switch lights when the SHARC's are not in reset. Reset is controlled by the System Controller. If a reboot of the SHARC's is required, use the System Controller reset switch to reset the entire IQ-USM 810 and reboot the SHARC's.

Q. I plug in the IQ-USM 810 and nothing happens. What's the matter?

A. First, ensure that AC power is indeed being applied to the unit. Next, take the cover off the unit and see if any of the LED's on the System Controller or SHARC boards are lit. If so, check the cable between the System Controller board and Front Display board. If no LED's are lit, check the cable between the power supply (located under the System Controller board) and the System Controller. If that seems OK, check the power supply by removing the System Controller. A fuse is located on the power supply board. Replace ONLY with the same type fuse.

Q. What is preset "P00?"

A. Preset P00 is a factory default preset that allows the IQ-USM 810 to be placed into a known, safe state. In P00, all faders are at minimum and all filters, gates,

delays, etc. are off. It is a good place to start when starting to configure a unit or if you need to get back to a known starting point.

Q. What is the purpose of the "Infinity Pattern" on the front panel?

A. The Infinity pattern is also referred to as a "test" pattern. It's serves no real purpose other than to provide an attractive display when front panel level or gate status indication is not desired.

Q. How should I set the baud rate on the IQ-USM 810?

A. The baud rate for the RS232 interface is adjustable and is accessed by the front panel (see the Reference Manual for information on setting the baud rate). In practice, you should try to run at as a fast a rate as you can without problems. Some computers have difficulties keeping up at 115 k baud. If you notice the IQ-USM 810 dropping off-line occasionally, try a slower baud rate. The IQ for Windows software automatically adjusts to the selected baud rate of the IQ-USM 810 during initialization, so no setup of the software is required.

Q. Why don't I have a control to set the baud rate of the IQ loop?

A. The IQ loop's baud rate is fixed at 38.4 k baud and is not adjustable.

Q. What voltage should I use to wire analog control pots to the IQ-USM 810's Control Port?

A. The IQ-USM 810 needs a 0 to +10V voltage to utilize the full range of the Control Port's analog inputs. +10VDC is provided on the Control Port connector for this purpose. If you want the remote pot to control only a portion of the fader range, use the IQ for Windows software to tailor the range desired. In general, the Control Port pots should be wired between GND and +10VDC.

5 Parts

5.1 General Information

This chapter includes both a mechanical and electrical parts list for this product. All serviceable parts and assemblies will have a Crown Part Number (CPN) listed in this chapter. The parts listed are current as of the date printed. Crown reserves the right to modify and improve its products for the benefit of its customers.

PART PRICES AND AVAILABILITY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

5.2 Ordering and Receiving Parts

When ordering parts, be sure to give the product model, and include a description and part number from the parts listing. Price quotes are available on request.

5.2.1 Terms

Normal terms are prepaid. Net-30 Days applies to only those having pre-established accounts with Crown. The Crown Parts Department does accept Visa or Master Card. If prepaying, the order must be packed and weighed before a total bill can be established, after which an amount due will be issued and shipment made upon receipt of payment. New parts returned for credit are subject to a restocking fee, and authorization from the Crown Parts Department must be obtained before returning parts for credit.

5.2.2 Shipment

Shipment will normally be made via UPS, or best other method unless you specify otherwise. Shipments are made to and from Elkhart, Indiana USA, only. Established accounts with Crown will receive shipment freight prepaid and will be billed. All others will receive shipment on a C.O.D. or prepayment (check or credit card) basis.

Crown Customer Service

Technical Support Group Factory Service Parts Department

Mailing Address: P.O. Box 1000, Elkhart IN 46515 *Shipping Address:* Plant 2 S. W. 1718 W. Mishawaka Rd., Elkhart IN 46517 Phone: (219) 294-8200 Toll Free: (800) 342-6939 Fax: (219) 294-8301 http://www.crownaudio.com This page intentionally left blank

6 Exploded View Parts

6.1 General Information

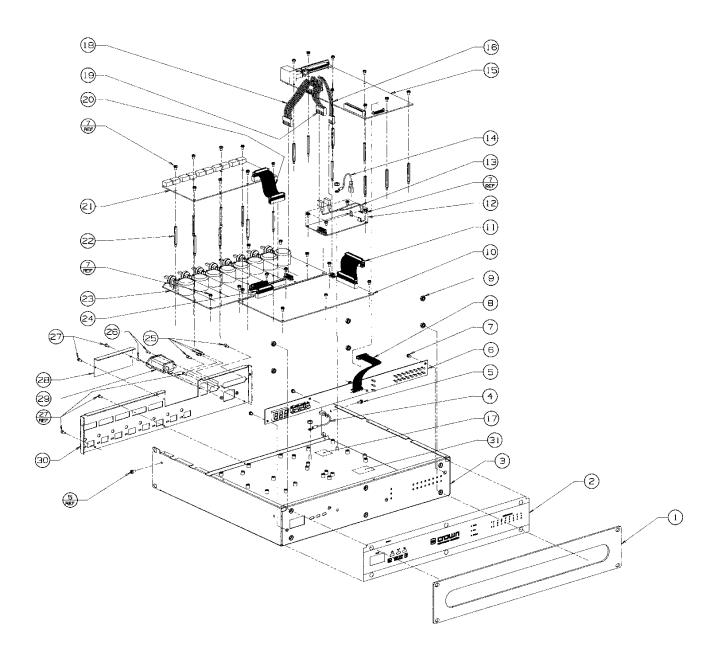
This chapter includes a mechanical part list for this product. All serviceable parts and assemblies will have a Crown Part Number (CPN) listed in this chapter. The parts listed are current as of the date printed. Crown reserves the right to modify and improve its products for the benefit of its customers. 

Figure 6.1 Chassis Assembly



6.2 Chassis Assembly

Refer to figure 6.1 for Location of Major Parts

Item	Quantity	Description	Part # (CPN)
1	1	FP, USM810 PC	126726-1
2	1	OVERLAY, USM810 FRONT PANEL	127226-1
3	1	CHASSIS, USM810 WELD AP/PC	126725-6
4	1	WIRE, 18 GRN/YEL RING x 2.5 x FAST	A11410-E025N
5	2	SEMS, 6x32 x .31 TORX PNHD STAR	103433-70605
6	1	PWA, USM810 FRONT DISPLAY	SEE SECTION 7
7	36	SMSCR, 6x32 .25 TORX PNHD SEM	103435-70604
8	1	CABLE, 18 COND TIN PICOFLEX	100466-1
9	8	8-32 HEX NUT W/BELLE	A11056-2
10	1	PWA, USM810 SHARC	SEE SECTION 7
11	1	CABLE, 40POS 3IN RIBBON	127216-1
12	1	PWR SPLY, 120/240V 40W TPL OUT	126783-1
13	1	CABLE, 3 PIN 5" MOLEX	127769-1
14	1	WIRE, 18 GRN/YEL RING x 3.5 x FAST	A11410-E035N
15	1	PWA, USM810 SYS CTRL	SEE SECTION 7
16	1	CABLE, 3 PIN 5.5" MOLEX	127768-1
17	1	LABEL, PROTECTIVE EARTH GROUND	A10776-1
18	1	CABLE, 6 PIN 6.5" MOLEX	127740-1
19	1	CABLE, 6 PIN 4.2" MOLEX	127767-1
20	1	CABLE, 26POS 3IN RIBBON	127215-1
21	1	PWA, USM810 OUTPUT	SEE SECTION 7
22	16	STAND, 6-32 x 1.4375 HEX MALE	A12095-9
23	1	PWA, USM810 INPUT	128049-1
24	1	CABLE, 26POS 1IN RIBBON	127214-1
25	4	SCRLOK W/.312 THD LUG #205818-2	C 7074-5
26	2	4-40 x .37 PLTHD PH MSCR BZ	A10091-70406
27	5	4-40 x .312 TAPTITE PH PN BZ	A10110-70405
28	1	COVER, USM810 CNET PC	127038-2
29	1	FILTER, RFI W/IEC SOCKET 3A	A11451-1
30	1	BACK PANEL, USM810 PC/PP	126727-4
31	1	LABEL, USM810 FUSE	128108-1

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7 *Module and Schematic Information*

7.1 General Information

The schematics referenced and provided are representative only. There may be slight variations between component to component. These schematics are intended to be used for troubleshooting purposes only.

Note on circuit board designations: Crown circuit boards are referenced with a PWA and/or PWB part number. PWA stands for Printed Wire Assembly. This is the completed circuit board with all components assembled. PWB stands for Printed Wire Board. This is the circuit board only, without components.

7.2 IQ-USM 810 Modules

7.2.1 Front Panel Display PWA: 126747-3

Display PWA on 126746-3 PWB.

7.2.2 System Controller PWA:

128045-1 System Controller PWA on 126346-5 PWB. Use 126451-3 as service replacement.

126451-3 System Controller PWA on 126346-5 PWB. Replaced 128045-1.

7.2.3 SHARC PWA:

128047-3 SHARC PWA on 126743-4 PWB. Use 126744-3 as service replacement.

128047-4 SHARC PWA on 126743-4 PWB. Replaced 128047-3. Use 126744-3 as service replacement.

126744-3 SHARC PWA on 126743-4 PWB.

7.2.4 Input PWA: 128049-1 Input PWA on 126689-3 PWB. Use 126690-3 as service replacement. 126690-3 Input PWA on 126689-3 PWB.

7.2.5 Output PWA:

128051-3 Output PWA on 126692-4 PWB. Use 126692-4 as service replacement.

126693-4 Output PWA on 126692-4 PWB.

7.3 Schematic Diagrams:

7.3.1 Front Panel Display PWA 126745 Rev. A Use for 126747-3 PWA.

7.3.2 System Controller PWA

126323 Rev. A Use for 128045-1 PWA.

126451-3 Rev. A Use for 126451-3 PWA.

7.3.3 SHARC PWA

126742 Rev. C Use for 128047-3 PWA.

126742 Rev. D Use for 128047-4 PWA.

126744-3 Rev. A Use for 126744-3 PWA.

7.3.4 Input PWA

126688 Rev. A Use for 128049-1 PWA.

126690-3 Rev. A Use for 126690-3 PWA.

7.3.5 Output PWA

126691 Rev. C Use for 128051-3 PWA.

126693-4 Rev. A Use for 126693-4 PWA. This page intentionally left blank

8 Module Parts

8.1 General Information

This chapter includes electrical parts lists for this product. All serviceable parts and assemblies will have a Crown Part Number (CPN) listed in this chapter. The parts listed are current as of the date printed. Crown reserves the right to modify and improve its products for the benefit of its customers.

- 126451-3
- 126690-3
- 126693-4
- 126744-3
- 126747-3
- 128045-1
- 128047-3
- 128047-4
- 120011 1
- 128049-1
- 128051-3

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PWA #126451-3

System Controller Module PWB #126346-5 Schematic #126451-3 Rev. A

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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C1	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 2
C2		.1UF 50V CHIP CAP 10% 0805 X7R	A 2
СЗ		.1UF 50V CHIP CAP 10% 0805 X7R	A 2
C4		.1UF 50V CHIP CAP 10% 0805 X7R	A 2
C5		.1UF 50V CHIP CAP 10% 0805 X7R	B 2
C6	***************************************	.1UF 50V CHIP CAP 10% 0805 X7R	D 3
C7		.1UF 50V CHIP CAP 10% 0805 X7R	E 2
CB	C10391-8	10. UF 16V 20% TANTALUM SMT	<u> </u>
C9		.1UF 50V CHIP CAP 10% 0805 X7R	D 4
C10	the second s	.1UF 50V CHIP CAP 10% 0805 X7R	D 5
C11		.1UF 50V CHIP CAP 10% 0805 X7R	D 5
C12		.1UF 50V CHIP CAP 10% 0805 X7R	D 5
C13		.1UF 50V CHIP CAP 10% 0805 X7R	B 4
C14			
	C10391-8	10. UF 16V 20% TANTALUM SMT	J 2
C15		.1UF 50V CHIP CAP 10% 0805 X7R	<u>K 1</u>
C16		.1UF 50V CHIP CAP 10% 0805 X7R	I 2
C17		.1UF 50V CHIP CAP 10% 0805 X7R	F 1
C18		.1UF 50V CHIP CAP 10% 0805 X7R	F 2
C19	C10391-8	10. UF 16V 20% TANTALUM SMT	F 2
C20	and the second	.1UF 50V CHIP CAP 10% 0805 X7R	F 2
C21		.001UF 50V 5% NPO MLC 0805 T/R	E 2
C22	127075-1	CAP. 100UF 16V 20% ALUM SMT	E 2
C23		.001UF 50V 5% NPO MLC 0805 T/R	E 2
C24	127075-1	CAP. 100UF 16V 20% ALUM SMT	F 1
C25	126251-1	SUPERCAP, IF 5.5V HORIZ	E 5
C26		6.8PF 50V +/5PF NPO MLC 0805	G 3
C27		.1UF 50V CHIP CAP 10% 0805 X7R	G 3
C28		.1UF 50V CHIP CAP 10% 0805 X7R	J 3
C29	127075-1	CAP, 100UF 16V 20% ALUM SMT	JЗ
C30		.1UF 50V CHIP CAP 10% 0805 X7R	B 4
C31		.1UF 50V CHIP CAP 10% 0805 X7R	H 4
C32		.1UF 50V CHIP CAP 10% 0805 X7R	H 4
C33		.1UF 50V CHIP CAP 10% 0805 X7R	Н 5
C34	C10391-8	10.UF 16V 20% TANTALUM SMT	FЗ
C35		.1UF 50V CHIP CAP 10% 0805 X7R	E 3
C36		.1UF 50V CHIP CAP 10% 0805 X7R	F 3
C37		.1UF 50V CHIP CAP 10% 0805 X7R	G 4
C38		.1UF 50V CHIP CAP 10% 0805 X7R	E 5
C39	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	G 4
C40		22 PF 5% 50V NPO CER CHIP	G 4
C41	A11369-220J2	22 PF 5% 50V NPO CER CHIP	G 4
C42	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	F 3
C43	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	E 4
C44		.1UF 50V CHIP CAP 10% 0805 X7R	E 4
C45		22 PF 5% 50V NPO CER CHIP	G 4
C46		22 PF 5% 50V NPO CER CHIP	G 4
C47	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	H 4
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		PARTS LIST	······································
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
C48	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	нз
C49	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 1
C50	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 1
C51	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 2
C52	A11427-104K2		СЗ
C53	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 2
C54		.1UF 50V CHIP CAP 10% 0805 X7R	C 2
C55		.1UF 50V CHIP CAP 10% 0805 X7R	C 1
C56	C10391-8	10.UF 16V 20% TANTALUM SMT	C 2
C57		.1UF 50V CHIP CAP 10% 0805 X7R	A 2
C58		.001UF 50V 5% NPO MLC 0805 T/R	
C59		.1UF 50V CHIP CAP 10% 0805 X7R	D 5
C60		.001UF 50V 5% NPO MLC 0805 T/R	<u> </u>
D1	C10144-1	DIODE, ZENER 15V SOT-23	
D7 D2			
	C10144-1	DIODE, ZENER 15V SOT-23 DIODE, ZENER 15V SOT-23	B 1
D3	C10144-1		
D4	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	<u>B 1</u>
E1	126473-1	LED. GRN SMT 1206	F 3
E2	126473-1	LED, GRN SMT 1206	<u> </u>
E3	126473-1	LED, GRN SMT 1206	<u>G 4</u>
F1	125721-1	PTC, 1A 60V 0.70HM	84
F2	125721-1	PTC, 1A 60V 0.70HM	83
F3	125721-1	PTC, 1A 60V 0.70HM	<u>B 1</u>
FB1	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 2
F82	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 2
FB3	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 2
FB4	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 2
F85	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 2
F86	125846-1	FERRITE BEAD, 600 OHM .5A 0805	DЗ
FB7	125846-1	FERRITE BEAD, 600 OHM .5A 0805	В 3
F88	125846-1	FERRITE BEAD, 600 OHM .5A 0805	83
F89	125846-1	FERRITE BEAD, 600 OHM .5A 0805	В 3
FB10	125846-1	FERRITE BEAD, 600 OHM .5A 0805	83
FB11	125846-1	FERRITE BEAD, 600 OHM .5A 0805	В 3
FB12	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 4
FB13	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 4
FB14	125846-1	FERRITE BEAD, 600 OHM .5A 0805	В 4
FB15	125846-1	FERRITE BEAD, 600 OHM .5A 0805	C 4
FB16	125846-1	FERRITE BEAD, 600 OHM , 5A 0805	B 4
FB17	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	B 4
FB18	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 4
FB19	125846-1	FERRITE BEAD, 600 OHM .5A 0805	85
	125846-1	FERRITE BEAD, 600 OHM .5A 0805	85
FB20			85
FB21	125846-1		85
FB22	125846-1		
FB23	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 5
FB24	125694-1	FERRITE BEAD. 2A SMT 4532	A 4

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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
F825	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 4
FB26	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 4
FB27	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 4
FB28	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 4
FB29	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	A 5
		FERRITE BEAD, 600 OHM .5A 0805	A 5
FB30	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 5
FB31			A 5
FB32	125846-1		JZ
FB33	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 1
FB34	125846-1	FERRITE BEAD, 600 OHM .5A 0805	
FB35	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 2
F836	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	G 3
FB37	125846-1	FERRITE BEAD, 600 OHM .5A 0805	J3
FB38	125694-1	FERRITE BEAD, 2A SMT 4532	B 4
F839	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 3
FB40	125846-1	FERRITE BEAD, 600 OHM .5A 0805	D 4
FB41	125846-1	FERRITE BEAD, 600 OHM .5A 0805	НЗ
FB42	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 1
FB43	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 1
FB44	125846-1	FERRITE BEAD, 600 OHM .5A 0805	C 2
FB45	125846-1	FERRITE BEAD, 600 OHM .5A 0805	C 2
FB46	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 1
FB47	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 1
FB48	125694-1	FERRITE BEAD, 2A SMT 4532	E 2
FB49	125694-1	FERRITE BEAD, 2A SMT 4532	A 1
F850	125846-1	FERRITE BEAD, 600 OHM .5A 0805	СЗ
F851		OPEN	B 2
HW1	C 6419-3	SHUNT, .025" SQ POST 2 POS	G 4
J1	C 8173-4	D-SUB 9PIN R ANGLE METAL FEM	A 2
J2	125676-1	CONN, DUAL BPIN MOD R/A PC MNT	A 1
K1	126289-1	RELAY, DPDT 12V/1A SMT	B 2
L2	125715-1	INDUCTOR, 53UH 1.87A SMT	E 1
MODE	C 7746-8	3POS SGLROW HDR .025 POST GOLD	<u> </u>
P1	127184-1	HEADER, 40PIN 0.1 CTRS	I 1
P2	C 8666-7	10POS . 100X. 100 DBLROW HDR AU	F 1
P3	127068-1	HEADER, 6 POS 0.156" TIN	D 1
P4	C 8890-3	3POS .156 CTR MTA HDR TIN	D Z
	,		D 1
P5	127068-1	HEADER, 6 POS Ø. 156" TIN	
P6	C10571-5	18 PIN HDR PICOFLEX TIN	K 2
P7	C 9654-2	37 PIN MALE D-SUB PC MNT	A 3
P9	126312-1	HEADER, 6 PIN DUAL	G 3
Q1	C 744B-1	MMBT3904 CHIP NPN	B 4
02	C 7448-1	MMBT3904 CHIP NPN	<u>B 4</u>
03	C 744B~1	MMBT3904 CHIP NPN	<u>B 4</u>
Q4	C 7448-1	MMBT3904 CHIP NPN	85
Q5	C 7448-1	MMBT3904 CHIP NPN	B 5
Q6	C 7448-1	MMBT3904 CHIP NPN	85
L		L	
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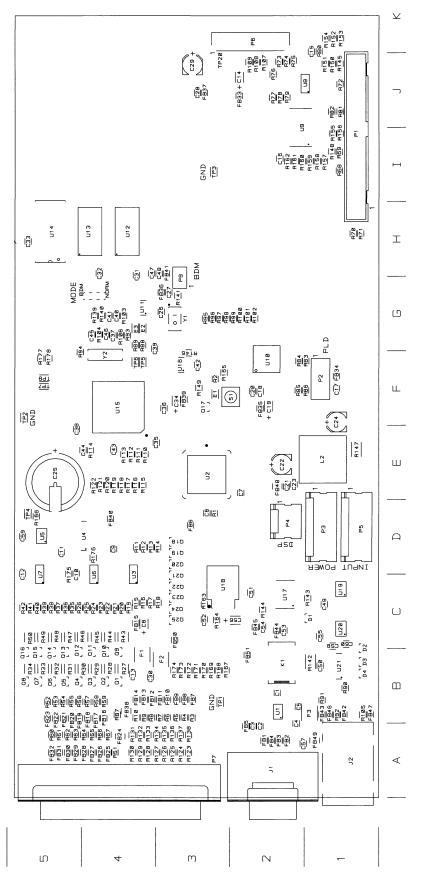
		PARTS LIST	1
REF DES		DESCRIPTION	MAP LOC.
Q7	C 7448-1	MMBT3904 CHIP NPN	85
QB	C 7448-1	MMBT3904 CHIP NPN	B 5
Q9	C 7448-1	MMBT3904 CHIP NPN	B 4
010	C 7448-1	MMBT3904 CHIP NPN	B 4
Q11	C 7448-1	MMBT3904 CHIP NPN	B 4
Q12	C 7448-1	MMBT3904 CHIP NPN	B 5
Q13	C 7448-1	MMBT3904 CHIP NPN	B 5
Q14	C 7448-1	MMBT3904 CHIP NPN	B 5
Q15	C 7448-1	MMBT3904 CHIP NPN	85
Q16	C 7448-1	MMBT3904 CHIP NPN	85
Q17	C 7448-1	MMBT3904 CHIP NPN	F 3
Q18	C 7448-1	MMBT3904 CHIP NPN	DЗ
Q19	C 7448-1	MMBT3904 CHIP NPN	D 3
020	C 7448-1	MMBT3904 CHIP NPN	D 3
021	C 7448-1	MMBT3904 CHIP NPN	СЗ
022	C 7448-1	MMBT3904 CHIP NPN	СЗ
Q23	C 7448-1	MMBT3904 CHIP NPN	
Q24	C 7448-1	MMBT3904 CHIP NPN	<u> </u>
025	C 7448-1	MMBT3904 CHIP NPN	
R1		10K 1/10W 1% SMD 0805 T/R	
R2			D 3
		1.KOHM .1W 1% CHIP 0805	F 3
R3	126254-1	TVS, 12V/40A 0805 SMT	<u> </u>
R4	126254-1	TVS. 12V/40A 0805 SMT	<u> </u>
R5	126254-1	TVS, 12V/40A 0805 SMT	<u> 83</u>
R6	126254-1	TVS, 12V/40A 0805 SMT	ВЗ
R7	126254-1	TVS. 12V/40A 0805 SMT	83
R8	126254-1	TVS, 12V/40A 0805 SMT	B 4
R9	126254-1	TVS, 12V/40A 0805 SMT	В 4
R10	126254-1	TVS, 12V/40A 0805 SMT	B 4
R11	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 4
R12	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 4
R13	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 4
R14	A11368-10021	10K 1/10W 1% SMD 0805 T/R	DЗ
R15	A11368-10021	10K 1/10W 1% SMD 0805 T/R	C 4
R16	A11368-10021	10K 1/10W 1% SMD 0805 T/R	C 4
R17		10K 1/10W 1% SMD 0805 T/R	C 4
R18		10K 1/10W 1% SMD 0805 T/R	СЗ
R19		10K 1/10W 1% SMD 0805 T/R	C 4
R20		10K 1/10W 1% SMD 0805 T/R	
R21		10K 1/10W 1% SMD 0805 T/R	
R22		10K 1/10W 1% SMD 0005 T/R	
R23		10K 1/10W 1% SMD 0805 T/R	
R24		10K 1/10W 1% SMD 0805 T/R	
R25		10K 1/10W 1% SMD 0805 T/R	
R26		10K 1/10W 1% SMD 0805 T/R	<u>C 5</u>
R27		1K 0.25W 1% 1210 T/R	B 4
R28	A11368-10013	1K 0.25W 1% 1210 T/R	B 4
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TROLLED C LUDING AS	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS	
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		PARTS LI	ST			
REF DES		DESCRIPTION			MAP L	
R29		1K 0.25W 1% 1210 T/R		· · · · · · · · · · · · · · · · · · ·	B	
R30		1K 0.25W 1% 1210 T/R			8	
R31		1K 0.25W 1% 1210 T/R			B	
R32		1K 0.25W 1% 1210 T/R	······	· • • • • • • • • • • • • • • • • • • •	8	
R33		1K 0.25W 1% 1210 T/R			8	
R34		1K 0.25W 1% 1210 T/R			8	
R35		10K 1/10W 1% SMD 0805				
R36		10K 1/10W 1% SMD 0805				
R37 R38		10K 1/10W 1% SMD 0805				
R39		10K 1/10W 1% SMD 0805				
R40		10K 1/10W 1% SMD 0805				
R41		10K 1/10W 1% SMD 0805				
R42						
R43						
R44	······································	1K 0.25W 1% 1210 T/R 1K 0.25W 1% 1210 T/R				
R45		1K 0.25W 1% 1210 T/R				
R46		1K 0.25W 1% 1210 T/R		·····		
R45		1K 0.25W 1% 1210 T/R				
R48		1K 0.25W 1% 1210 T/R				
R49		1K 0.25W 1% 1210 T/R				
R50		1K 0.25W 1% 1210 T/R				
R51	126195-1	TVS, 5.6/40A 0805 SMT	•		A	
R52	126254-1	TVS, 12V/40A 0805 SMT			В	
R53	126254-1	TVS, 12V/40A 0805 SMT			8	
R54	126254-1	TVS, 12V/40A 0805 SMT		nan, , . 1. a. anay	<u>B</u>	
R55	126254-1	TVS, 12V/40A 0805 SMT			8	
R56	126254-1	TVS, 12V/40A 0805 SMT		*****	в	
R57	126254-1	TVS, 12V/40A 0805 SMT			В	
R58	126254-1	TVS, 12V/40A 0805 SMT			в	
R59	126254-1	TVS, 12V/40A 0805 SMT			в	
R60	126254-1	TVS, 12V/40A 0805 SMT			<u>B</u>	
R61	126254-1	TVS, 12V/40A 0805 SMT			A	
R62	126254-1	TVS, 12V/40A 0805 SMT			A	
R63	126254-1	TVS. 12V/40A 0805 SMT			A	
R64	126254-1	TVS, 12V/40A 0805 SMT			A	
R65	126254-1	TVS, 12V/40A 0805 SMT		• • • • • • • • • • • • • • • • • • •	A	4
R66	126254-1	TVS. 12V/40A 0805 SMT			A	
R67	126254-1	TVS. 12V/40A 0805 SMT		•	A	
R68	A11368-10021	10K 1/10W 1% 5MD 0805			I	····
R69		10K 1/10W 1% SMD 0805			I	
R70	A11368-47R51	47.5 OHM . 1W 1% 0805	T/R		н	1
R71		47.5 OHM .1W 1% 0805			н	1
R72		47.5 OHM .1W 1% 0805		· · · · · · · · · · · · · · · · · · ·	L	1
R73		10K 1/10W 1% SMD 0805			L	2
R74		10K 1/10W 1% 5MD 0805			J	2
R75	A11368-10021	10K 1/10W 1% SMD 0805	T/R		L	2
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R76		10K 1/10W 1% SMD 0805 T/R	J Z
R77		10K 1/10W 1% SMD 0805 T/R	J 2
R78		10K 1/10W 1% SMD 0805 T/R	JZ
R79		10K 1/10W 1% SMD 0805 T/R	
R80	······································	10K 1/10W 1% SMD 0805 T/R	<u>к 1</u>
RB1		10K 1/10W 1% SMD 0805 T/R	J 1
RB2		10K 1/10W 1% SMD 0805 T/R	
RB3		47.5 OHM .1W 1% 0805 T/R	F 1
R84	A11368-47R51		F Z
R85		47.5 OHM .1W 1% 0805 T/R	
RB6		10K 1/10W 1% SMD 0805 T/R	F 2
R87	126254-1		F 1
		TVS, 12V/40A 0805 SMT	<u>B 4</u>
R88 R89		1.KOHM .1W 1% CHIP 0805	<u> </u>
		1.KOHM .1W 1% CHIP 0805	G 4
R90		47.5 OHM .1W 1% 0805 T/R	81
R91		47.5 OHM .1W 1% 0805 T/R	<u>B 1</u>
R92	126195-1	TVS, 5.6/40A 0805 SMT	<u>B 1</u>
R93		10K 1/10W 1% SMD 0805 T/R	G 4
R94		47.5 OHM .1W 1% 0805 T/R	F 5
R95		47.5 OHM .1W 1% 0805 T/R	G 3
R96		47.5 OHM .1W 1% 0805 T/R	G 3
R97		47.5 OHM .1W 1% 0805 T/R	G 3
R98	A11368-47R51		G 3
R99		47.5 OHM .1W 1% 0805 T/R	G 2
R100	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	G 2
R101	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	G 2
R102	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	G 2
R103	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	G 4
R104	A11371-1051	1. MOHM . 1 W 5% CHIP 0805	G 4
R105	126195-1	TVS, 5.6/40A 0805 SMT	B 1
R106	A11368-10011	1.KOHM .1W 1% CHIP 0805	G 4
R107		47.5 OHM .1W 1% 0805 T/R	JZ
R108		47.5 OHM .1W 1% 0805 T/R	JZ
R109		47.5 OHM .1W 1% 0805 T/R	JZ
R110		47.5 OHM .1W 1% 0805 T/R	E 4
R111	A11368-47R51		E 4
R112		47.5 OHM .1W 1% 0805 T/R	E 4
R113		47.5 OHM .1W 1% 0805 T/R	E 4
R114		1.KOHM .1W 1% CHIP 0805	E 4
R115		49.9KOHM .1W 1% CHIP 0805	E 4
R116		49.9KOHM .1W 1% CHIP 0805	E 4
R117	and the second secon	49.9KOHM .1W 1% CHIP 0805	
R118	A11368-49921		<u>E 4</u>
R119	A11368-49921		<u>E 4</u>
R120		49.9KOHM .1W 1% CHIP 0805	<u>E 4</u>
	A11368-49921		<u>E 4</u>
R121	A11368-49921	49.9KOHM .1W 1% CHIP 0805	<u>E 4</u>
R122	ALIS08-49921	49.9KOHM .1W 1% CHIP 0805	<u>E 4</u>
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R123		49.9KOHM .1W 1% CHIP 0805	A 3
R124	A11368-49921	49.9KOHM .1W 1% CHIP 0805	A 3
R125	A11368-49921	49.9KOHM .1W 1% CHIP 0805	A 3
R126	A11368-49921	49.9KOHM .1W 1% CHIP 0805	A 3
R127	A11368-49921	49.9KOHM .1W 1% CHIP 0805	A 3
R128	A11368-49921	49.9KOHM .1W 1% CHIP 0805	A 4
R129		49.9KOHM .1W 1% CHIP 0805	A 4
R130	A11368-49921	49.9KOHM .1W 1% CHIP 0805	A 4
R131	126254-1	TVS, 12V/40A 0805 SMT	A 4
R132	126254-1	TVS, 12V/40A 0805 SMT	A 4
R133	126254-1	TVS, 12V/40A 0805 SMT	A 4
R134	126254-1	TV5, 12V/40A 0805 SMT	A 3
R135	126254-1	TV5. 12V/40A 0805 SMT	A 3
R136	126254-1	TVS, 12V/40A 0805 SMT	A 3
R137	126254-1	TV5, 12V/40A 0805 SMT	A 3
R138	126254-1	TVS. 12V/40A 0805 SMT	E A
R139	A11368-10021	10K 1/10W 1% SMD 0805 T/R	G 4
R140		10K 1/10W 1% SMD 0805 T/R	G 4
R141		10K 1/10W 1% SMD 0805 T/R	G 3
R142	A11371-3314	330 OHM 5% .5W 2010 RES T/R	B 1
R143	A11368-10011	1.KOHM .1W 1% CHIP 0805	C 1
R144		10K 1/10W 1% 5MD 0805 T/R	C 2
R145		47.5 OHM .1W 1% 0805 T/R	J 1
R146	A11368-10021	10K 1/10W 1% 5MD 0805 T/R	F 3
R147		OPEN	E 1
R148	A11368-10021	10K 1/10W 1% SMD 0805 T/R	I 1
R149		10K 1/10W 1% SMD 0805 T/R	F 3
R150		47.5 OHM .1W 1% 0805 T/R	J 1
R151	A11368-47R51		J 1
R152	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	K 1
R153	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	К 1
R154	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	K 1
R155	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	I 1
R156	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	I 1
R157	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	I 1
R158	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	I 1
R159	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	I 1
R160	and the second	47.5 OHM .1W 1% 0805 T/R	I 2
R161		47.5 OHM .1W 1% 0805 T/R	I 2
R162		47.5 OHM .1W 1% 0805 T/R	I 2
R163	A11368-28011	2.80KOHM .10W 1% MF 0805	СЗ
R164	A11368-39201	392. OHM 1/10W 1% SMD 0805 T/R	СЗ
R165	126195-1	TVS, 5.6/40A 0805 SMT	FЗ
R166	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	D 5
R167	A11368-10021	10K 1/10W 1% SMD 0805 T/R	B 3
R168	A11368-10021	10K 1/10W 1% SMD 0805 T/R	ВЗ
R169	A11368-10021	10K 1/10W 1% SMD 0805 T/R	83
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[PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R170		10K 1/10W 1% SMD 0805 T/R	83
R171		10K 1/10W 1% SMD 0805 T/R	В 3
R172		10K 1/10W 1% SMD 0805 T/R	в з
R173		10K 1/10W 1% SMD 0805 T/R	83
R174	and the second		
		10K 1/10W 1% SMD 0805 T/R	83
R175		10K 1/10W 1% SMD 0805 T/R	D 5
R176	A11368-10021		D 4
R177		1.KOHM .1W 1% CHIP 0805	F 5
R178	A11368-10011	1.KOHM .1W 1% CHIP 0805	F 5
51	127059-1	SWITCH, SPST 6MM SMT	F 2
TP1	127064-1	TEST POINT, SMT 1206	В 3
TP2	127064-1	TEST POINT, SMT 1206	F 5
ТРЗ	127064-1	TEST POINT, SMT 1206	I 3
TP4	127064-1	TEST POINT, SMT 1206	D 5
TP5	127064-1	TEST POINT, SMT 1206	F 4
TP6	127064-1	TEST POINT, SMT 1206	F 4
TP7	127064-1	TEST POINT, SMT 1206	F 5
TPB			
	127064-1	TEST POINT, SMT 1206	F 5
	126117-1	IC. R5232 RX/TX ADM202E TSSOP	B 2
U2	125693-1	UART PC16552DV DUAL	<u>E 3</u>
U3	100473-1	LATCH, BBIT 74HC573ADTR2 TSSOP	D 4
U4	101805-1	74ACT138D 1 OF 8 DECODER SOIC	D 4
U5	101804-1	74HC04ADT HEX INVERTER TSSOP	D 5
U6	100473-1	LATCH, BBIT 74HC573ADTR2 TSSOP	D 4
U7	100473-1	LATCH, 8BIT 74HC573ADTR2 TSSOP	D 5
U8	100473-1	LATCH, BBIT 74HC573ADTR2 TSSOP	J 1
U9	127062-1	IC, 74HCT245 OCTAL XCVR SOIC	JZ
U10	126290-1	IC, MACH2115P-15TC PLD TSSOP	F 2
U11	126107-1	IC, DS1302Z RTC 501CB	G 4
U12			
	126244-1	IC, 29C040A 512KX8 FLASH TSSOP	H 4
<u>U13</u>	126244-1	IC, 29C040A 512KX8 FLASH TSSOP	<u>H4</u>
U14	125751-1	SRAM, 128K X B 15NS LO PWR SOJ	Н 5
U15	126106-1	MCU, 68HC812A4 TQFP	F 4
U16	126377-1	IC, DS1834A DUAL ECONORESET SMT	F 3
U17	125690-1	HCPL4200 HISPEED OPTOCOUPLER	C 2
U18	127142-1	IC, LM317 ADJ VOLT REG TO-263	C 3
U19	126037-1	IC, 74HC32 QUAD 2 IN OR TSSOP	C 1
U2Ø	101804-1	74HC04ADT HEX INVERTER TSSOP	C 1
U21	C10484-1	7407 HEX BUFFER SOIC T/R	B 1
Y1	127678-1	CRYSTAL, 32.768KHZ SMT	G 3
YZ	127679-1	CRYSTAL, 14.7456MHZ HC49U SMT	F 4
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OPERTY OF ALL NOT BE	GS AND SPECIFICA CROWN INTERNATIO REPRODUCED, COP	NAL, INC. AND A 126451-	3
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PWA #126451-3 Component Map (Component Side)

PWA #126690-3

Input Module PWB #126689-3 Schematic #126690-3 Rev. A

1		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION MAP L	OC.
C1		.1UF 50V CHIP CAP 10% 0805 X7R K	
C2	C10359-5	1. UF 16V 20% TANTALUM SMT K	4
СЗ		.1UF 50V CHIP CAP 10% 0805 X7R	
C4	C10359-5	1. UF 16V 20% TANTALUM SMT	
C5		.1UF 50V CHIP CAP 10% 0805 X7R H	
C6	A11427-104K2		
C7	C10359-5		
C8		.1UF 50V CHIP CAP 10% 0805 X7R G	
C9	C10359-5	1. UF 16V 20% TANTALUM SMT G	
<u>C10</u>		.1UF 50V CHIP CAP 10% 0805 X7R G	
C11		.1UF 50V CHIP CAP 10% 0805 X7R G	
C12	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R G	6
C13	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R E	6
C14	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R E	6
C15	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R F	5
C16	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R F	6
C17	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R F	5
C18	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R F	6
C19	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R E	
C20	C10359-5	1. UF 16V 20% TANTALUM SMT E	
C21	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C22	C10359-5	1. UF 16V 20% TANTALUM SMT F	
C23			
C24	and the provident of th	.1UF 50V CHIP CAP 10% 0805 X7R B	
C25	C10359-5	1. UF 16V 20% TANTALUM SMT C	
C26	and the second	.1UF 50V CHIP CAP 10% 0805 X7R F	5
C27	C10359-5	1. UF 16V 20% TANTALUM SMT E	5
C28		.1UF 50V CHIP CAP 10% 0805 X7R E	5
C29	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R G	6
C30	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R E	6
C31	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R F	6
C32	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R H	6
C33	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R H	6
C34	C10391-8	10. UF 16V 20% TANTALUM SMT E	6
C35	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R I	
C36		.001UF 50V 5% NPO MLC 0805 T/R H	
C37		.001UF 50V 5% NPO MLC 0805 T/R G	
C38		.001UF 50V 5% NPO MLC 0805 T/R F	*****
C39			
	C10391-8	10. UF 16V 20% TANTALUM SMT H	
C40	C10391-8	10. UF 16V 20% TANTALUM SMT I	
C41	C10391-8	10. UF 16V 20% TANTALUM SMT G	
C42	C10391-8	10. UF 16V 20% TANTALUM SMT E	5
C43	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R K	4
C44	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R H	4
C45	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R E	4
C46	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R B	4
C55	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R E	6
	······································		
NTROLLED CO CLUDING ASS	UNCONTROLLE WISE MARKED IN RE DPY, COPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS	
ROPERTY OF	GS AND SPECIFICA CROWN INTERNATION REPRODUCED, COP	$\begin{array}{c c} \text{Al. Inc. and} \\ \text{ied. or used} \\ \text{A} \\ \end{array} \qquad 126590-3 \\ \end{array}$	RE
	FOR THE MANUFAC		

FE DES	C.P.N.	DESCRIPTION	MAP LOC.
21 <u>DES</u>	and the second se	.001UF 50V 5% NPO MLC 0805 T/R	E 6
2100		220PF 200V 10% NPO 0805 T/R	K 1
C101		220PF 200V 10% NPO 0805 T/R	
C102		1500PF 50V 5% NPO MLC 0805 T/R	<u>к 1</u>
C103		1500PF 50V 5% NPO MLC 0805 T/R	L 1
C104	126475-1	CAP, AL 47UF 35V SMT	К 1
C105	126475-1	CAP, AL 47UF 35V SMT	К 1
C106		.001UF 50V 5% NPO MLC 0805 T/R	К 2
C107		.001UF 50V 5% NPO MLC 0805 T/R	L 2
C108	126475-1	CAP, AL 47UF 35V SMT	L 3
C109	126475-1	CAP, AL 47UF 35V SMT	КЗ
C110		220PF 200V 10% NPO 0805 T/R	КЗ
C111	126476-1	CAP, AL 470UF 5.3V SMT	L 3
C112		220PF 200V 10% NPO 0805 T/R	L 4
C113		47PF 200V 5% NPO 0805	КЗ
C114		47PF 200V 5% NPO 0805	<u>к 3</u> К 4
C115	126475-1	CAP, AL 47UF 35V SMT	
C116		220PF 200V 10% NPO 0805 T/R	К 4
C115		22 PF 5% 50V NPO CER CHIP	K 4
		1500PF 50V 5% NPO LER LHIP	H 5
C118			<u> нь</u> К 4
<u>C119</u>		.1UF 50V CHIP CAP 10% 0805 X7R	<u> </u>
<u>C120</u>		.1UF 50V CHIP CAP 10% 0805 X7R	
<u>C121</u>		.1UF 50V CHIP CAP 10% 0805 X7R	L 2
C200		220PF 200V 10% NPO 0805 T/R	J 1
C201		220PF 200V 10% NPO 0805 T/R	J 1
C202		1500PF 50V 5% NPO MLC 0805 T/R	J 1
C203		1500PF 50V 5% NPO MLC 0805 T/R	J 1
C204	126475-1	CAP, AL 47UF 35V SMT	J 1
C205	126475-1	CAP, AL 47UF 35V SMT	J 1
C206		.001UF 50V 5% NPO MLC 0805 T/R	J 2
C207	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	J 2
C208	126475-1	CAP. AL 47UF 35V SMT	КЗ
C209	126475-1	CAP, AL 47UF 35V SMT	J 3
C210	102438-221K2	220PF 200V 10% NPO 0805 T/R	13
C211	126476-1	CAP, AL 470UF 6.3V SMT	J 4
C212	102438-221K2	220PF 200V 10% NPO 0805 T/R	J 4
C213	102438-470J2	47PF 200V 5% NPO 0805	КЗ
C214	102438-470J2	47PF 200V 5% NPO 0805	K 4
C215	126475-1	CAP, AL 47UF 35V SMT	J 4
C216	102438-221K2	220PF 200V 10% NPO 0805 T/R	K 4
C217	A11369-220J2	22 PF 5% 50V NPO CER CHIP	K 4
C218	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	Н 5
C221	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	JZ
C300	102438-221K2	220PF 200V 10% NPO 0805 T/R	Н 1
C301	102438-221K2	220PF 200V 10% NPO 0805 T/R	I 1
C302	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	H 1
C303	and the second	1500PF 50V 5% NPO MLC 0805 T/R	I 1
	UNCONTROLLE		<u> </u>
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C304	126475-1	CAP, AL 47UF 35V SMT	H 1
C305	126475-1	CAP, AL 47UF 35V SMT	I 1
C306	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	H 2
C307	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	I Z
C308	126475-1	CAP, AL 47UF 35V SMT	IЗ
C309	126475-1	CAP, AL 47UF 35V SMT	IЗ
C310	102438-221K2	220PF 200V 10% NPO 0805 T/R	IЗ
C311	126476-1	CAP, AL 470UF 6.3V SMT	IЗ
C312		220PF 200V 10% NPO 0805 T/R	I 4
C313		47PF 200V 5% NPO 0805	НЗ
C314		47PF 200V 5% NPO 0805	Н 4
C315	126475-1	CAP, AL 47UF 35V SMT	I 4
C316		220PF 200V 10% NPO 0805 T/R	
C317		22 PF 5% 50V NPO CER CHIP	H 4
C318		1500PF 50V 5% NPO MLC 0805 T/R	<u> </u>
C319		.1UF 50V CHIP CAP 10% 0805 X7R	H 4
C320		.1UF 50V CHIP CAP 10% 0805 X7R	H 4
C321		.1UF 50V CHIP CAP 10% 0805 X7R	<u>I 2</u>
C400		220PF 200V 10% NPO 0805 T/R	<u>G 1</u>
C401		220PF 200V 10% NPO 0805 T/R	<u> </u>
C402		1500PF 50V 5% NPO MLC 0805 T/R	<u> </u>
C403	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	<u>G 1</u>
C404	126475-1	CAP. AL 47UF 35V SMT	G 1
C405	126475-1	CAP, AL 47UF 35V SMT	G 1
C406	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	G 2
C407	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	G 2
C4Ø8	126475-1	CAP, AL 47UF 35V SMT	НЗ
C409	126475-1	CAP, AL 47UF 35V SMT	G 3
C410	102438-221K2	220PF 200V 10% NPO 0805 T/R	НЗ
C411	126476-1	CAP, AL 470UF 6.3V SMT	G 4
C412		220PF 200V 10% NPO 0805 T/R	H 4
C413		47PF 200V 5% NPO 0805	НЗ
C414		47PF 200V 5% NPO 0805	H 4
C415	126475-1	CAP, AL 47UF 35V SMT	G 4
C416		220PF 200V 10% NPO 0805 T/R	H 4
C417		22 PF 5% 50V NPO CER CHIP	H 4
C418		1500PF 50V 5% NPO MLC 0805 T/R	G 4
C418		.1UF 50V CHIP CAP 10% 0805 X7R	H 2
C500		220PF 200V 10% NPO 0805 T/R	F 1
C501		220PF 200V 10% NPO 0805 T/R	F 1
C502		1500PF 50V 5% NPO MLC 0805 T/R	F 1
C503		1500PF 50V 5% NPO MLC 0805 T/R	F 1
C504	126475-1	CAP, AL 47UF 35V SMT	F 1
C505	126475-1	CAP, AL 47UF 35V SMT	F 1
C506	A11369-102J2		F 2
C507	A11369-102J2		F 2
C508	126475-1	CAP. AL 47UF 35V SMT	F 3
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		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
	126475-1	CAP, AL 47UF 35V SMT	F 3
		220PF 200V 10% NPO 0805 T/R	F 3
	126476-1	CAP, AL 470UF 6.3V SMT	<u> </u>
C512		220PF 200V 10% NPO 0805 T/R	F 4
	and the second	47PF 200V 5% NPO 0805	<u>E 3</u>
the second se		47PF 200V 5% NPO 0805	<u>F 4</u>
C515	126475-1	CAP, AL 47UF 35V SMT	F 4
C516		220PF 200V 10% NPO 0805 T/R	F 4
		22 PF 5% 50V NPO CER CHIP	F 4
C518		1500PF 50V 5% NPO MLC 0805 T/R	<u>F 4</u>
C519		.1UF 50V CHIP CAP 10% 0805 X7R	<u>E 4</u>
C520		.1UF 50V CHIP CAP 10% 0805 X7R	E 4
C521		.1UF 50V CHIP CAP 10% 0805 X7R	F 2
C600		220PF 200V 10% NPO 0805 T/R	D 1
		220PF 200V 10% NPO 0805 T/R	<u>E 1</u>
C602	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	D 1
C603	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	E 1
C604	126475-1	CAP, AL 47UF 35V SMT	D 1
C605		CAP, AL 47UF 35V SMT	D 1
C606	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	D 2
C607	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	E 2
C608	126475-1	CAP, AL 47UF 35V SMT	E 3
C609	126475-1	CAP. AL 47UF 35V SMT	DЗ
C610	102438-221K2	220PF 200V 10% NPO 0805 T/R	E 3
C611	126476-1	CAP, AL 470UF 6.3V SMT	D 4
C612	102438-221K2	220PF 200V 10% NPO 0805 T/R	E 4
C613		47PF 200V 5% NPO 0805	E 3
C614	102438-470J2	47PF 200V 5% NPO 0805	E 4
C615	126475-1	CAP, AL 47UF 35V SMT	E 4
C616		220PF 200V 10% NPO 0805 T/R	E 4
C617		22 PF 5% 50V NPO CER CHIP	E 4
C618		1500PF 50V 5% NPO MLC 0805 T/R	F 4
C621		.1UF 50V CHIP CAP 10% 0805 X7R	E 2
C700		220PF 200V 10% NPO 0805 T/R	
C701	the entrement of the second	220PF 200V 10% NPO 0805 T/R	C 1
C702		1500PF 50V 5% NPO MLC 0805 T/R	
C703		1500PF 50V 5% NPO MLC 0805 T/R	C 1
C704		CAP, AL 47UF 35V SMT	
C705		CAP, AL 47UF 35V SMT	
C705		.001UF 50V 5% NPO MLC 0805 T/R	
C707		.001UF 50V 5% NPO MLC 0805 T/R	
C708	126475-1	CAP, AL 47UF 35V SMT	D 3
		CAP, AL 470F 35V SMT	C 3
C709	126475-1		
C710	And the second se	220PF 200V 10% NPO 0805 T/R	D 3
C711	126476-1	CAP, AL 470UF 6.3V SMT	
C712		220PF 200V 10% NPO 0805 T/R	
C713	102430-4/0J2	47PF 200V 5% NPO 0805	<u> </u>
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5 THE BASIS	E REPRODUCED, COP 5 FOR THE MANUFAC	TURE OR SALE	
		OUT PERMISSION. SCALE NONE PROJ NO. MD404D0 SI	HEET 9 OF 22

		PARTS LIST	
REF DES	Γ Ρ N	DESCRIPTION	MAP LOC.
C714		47PF 200V 5% NPO 0805	C 4
C715	126475-1	CAP, AL 47UF 35V SMT	C 4
C716		220PF 200V 10% NPO 0805 T/R	C 4
C717	and the second	22 PF 5% 50V NPO CER CHIP	
C718		1500PF 50V 5% NPO MLC 0805 T/R	E 5
C719		.1UF 50V CHIP CAP 10% 0805 X7R	C 4
C720		.1UF 50V CHIP CAP 10% 0805 X7R	B 4
C720	and the second	.1UF 50V CHIP CAP 10% 0805 X7R	
			A 1
C800	and a second	220PF 200V 10% NPO 0805 T/R	B 1
C801	and the second	220PF 200V 10% NPO 0805 T/R	A 1
C802		1500PF 50V 5% NPO MLC 0805 T/R	
C803		1500PF 50V 5% NPO MLC 0805 T/R	B 1
C804	126475-1	CAP, AL 47UF 35V SMT	A 1
C805	126475-1	CAP, AL 47UF 35V SMT	B 1
C806		.001UF 50V 5% NPO MLC 0805 T/R	A 2
C807		.001UF 50V 5% NPO MLC 0805 T/R	B 2
C808	126475-1	CAP, AL 47UF 35V SMT	<u> </u>
C809	126475-1	CAP, AL 47UF 35V SMT	<u>B3</u>
C810	102438-221K2	220PF 200V 10% NPO 0805 T/R	В 3
C811	126476-1	CAP, AL 470UF 6.3V SMT	A 3
C812	102438-221K2	220PF 200V 10% NPO 0805 T/R	B 4
C813	102438-470J2	47PF 200V 5% NPO 0805	83
CB14	102438-470J2	47PF 200V 5% NPO 0805	B 4
C815	126475-1	CAP, AL 47UF 35V SMT	B 4
C816	102438-221K2	220PF 200V 10% NPO 0805 T/R	B 4
C817	A11369-220J2	22 PF 5% 50V NPO CER CHIP	B 4
C818	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	E 5
C821	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 2
C900		.001UF 50V 5% NPO MLC 0805 T/R	D 6
C901		.001UF 50V 5% NPO MLC 0805 T/R	D 6
C902	127075-1	CAP, 100UF 16V 20% ALUM SMT	B 6
C903	127074-1	CAP, 220UF 6.3V 20% ALUM SMT	 D 5
C904		.001UF 50V 5% NPO MLC 0805 T/R	Сб
C905	127074-1	CAP, 220UF 5.3V 20% ALUM SMT	86
C906		.1UF 50V CHIP CAP 10% 0805 X7R	A 6
		.001UF 50V 5% NPO MLC 0805 T/R	D 5
C907			B 5
C908	127075-1	CAP, 100UF 16V 20% ALUM SMT	
C909		1.1UF 50V CHIP CAP 10% 0805 X7R	
C910	127075-1	CAP, 100UF 16V 20% ALUM SMT	<u> </u>
C911	127075-1	CAP, 100UF 16V 20% ALUM SMT	<u>A 5</u>
C912		. 1UF 50V CHIP CAP 10% 0805 X7R	<u>C 5</u>
C913	126475-1	CAP, AL 47UF 35V SMT	<u> </u>
C914		.1UF 50V CHIP CAP 10% 0805 X7R	<u>C 5</u>
C915	126475-1	CAP. AL 47UF 35V SMT	<u>C 5</u>
C916	126475-1	CAP, AL 47UF 35V SMT	<u>C 5</u>
C917	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	A 5
C918	127075-1	CAP. 100UF 16V 20% ALUM SMT	A 5
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		TURE OR SALE	

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
C919	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 5
C920	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	B 5
C921	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 5
C922		.1UF 50V CHIP CAP 10% 0805 X7R	A 5
C923	127076-1	CAP, 1UF 50V CER X7R 10%SMT2225	A 5
D100	C10067-4	DIODE, 1A 100V SILICON SMT T/R	L 3
D101	C10067-4	DIODE, 1A 100V SILICON SMT T/R	L 3
D102	C10067-4	DIODE, 1A 100V SILICON SMT T/R	
D103	C10067-4		
D200	C10067-4		L 4
		DIODE, 1A 100V SILICON SMT T/R	13
D201	C10067-4	DIODE, 1A 100V SILICON SMT T/R	J 3
D202	C10067-4	DIODE, 1A 100V SILICON SMT T/R	J 4
D203	C10067-4	DIODE, 1A 100V SILICON SMT T/R	J 4
D300	C10067-4	DIODE, 1A 100V SILICON SMT T/R	I 3
D301	C10067-4	DIODE, 1A 100V SILICON SMT T/R	IЗ
D302	C10067-4	DIODE, 1A 100V SILICON SMT T/R	I 4
D303	C10067-4	DIODE, 1A 100V SILICON SMT T/R	I 4
D400	C10067-4	DIODE, 1A 100V SILICON SMT T/R	G 3
D401	C10067-4	DIODE, 1A 100V SILICON SMT T/R	G 3
D402	C10067-4	DIODE, 1A 100V SILICON SMT T/R	H 4
D403	C10067-4	DIODE, 1A 100V SILICON SMT T/R	G 4
D500	C10067-4	DIODE, 1A 100V SILICON SMT T/R	F 3
D501	C10067-4	DIODE, 1A 100V SILICON SMT T/R	F 3
D502	C10067-4	DIODE, 1A 100V SILICON SMT T/R	F 4
D5Ø3	C10067-4	DIODE, 1A 100V SILICON SMT T/R	F 4
D600	C10067-4	DIODE, 1A 100V SILICON SMT T/R	
D601	C10067-4		D 3
		DIODE, 1A 100V SILICON SMT T/R	E 3
D602	C10057-4	DIODE, 1A 100V SILICON SMT T/R	E 4
D603	C10067-4	DIODE. 1A 100V SILICON SMT T/R	D 4
D700	C10067-4	DIODE, 1A 100V SILICON SMT T/R	СЗ
D7Ø1	C10067-4	DIODE, 1A 100V SILICON SMT T/R	СЗ
D702	C10067-4	DIODE, 1A 100V SILICON SMT T/R	C 4
D7Ø3	C10067-4	DIODE, 1A 100V SILICON SMT T/R	D 4
D800	C10067-4	DIODE, 1A 100V SILICON SMT T/R	В 3
D801	C10067-4	DIODE, 1A 100V SILICON SMT T/R	В 3
D802	C10067-4	DIODE, 1A 100V SILICON SMT T/R	B 4
D803	C10067-4	DIODE, 1A 100V SILICON SMT T/R	B 4
D900	126411-1	DIODE, SCHOTTKY 3A 40V SMT	85
FB1	125846-1	FERRITE BEAD, 600 OHM .5A 0805	G 6
FB2	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 6
FB3	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 6
FB4	125846-1	FERRITE BEAD, 600 OHM .5A 0805	НБ
FB5	125846-1	FERRITE BEAD, 600 OHM .5A 0805	<u> </u>
FB6	125846-1		
FB7	125846-1		Н 5
		FERRITE BEAD, 600 OHM .5A 0805	<u> </u>
FB8	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 5
FB9	125846-1	FERRITE BEAD, 600 OHM .5A 0805	85
			<u> </u>
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
FB100	125846-1	FERRITE BEAD, 600 OHM .5A 0805	K 1
FB101	125846-1	FERRITE BEAD, 600 OHM .5A 0805	K 1
FB102	125846-1	FERRITE BEAD, 600 OHM .5A 0805	КЗ
F8103	125845-1	FERRITE BEAD, 600 OHM .5A 0805	L 4
F8200	125846-1	FERRITE BEAD, 600 OHM .5A 0805	J 1
F8201	125846-1	FERRITE BEAD, 600 OHM .5A 0805	J 1
F8202	125846-1	FERRITE BEAD, 600 OHM .5A 0805	J 3
F8203	125846-1	FERRITE BEAD, 600 OHM .5A 0805	
FB300	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	I 1
FB301	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	I 1
FB302	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	ІЗ
FB303	125846-1	FERRITE BEAD, 600 OHM .5A 0805	I 4
FB400	125846-1		I 4 G 1
FB401			
****	125846-1	FERRITE BEAD, 600 OHM .5A 0805	<u> </u>
FB402	125846-1	FERRITE BEAD, 600 OHM .5A 0805	<u>H 3</u>
FB403	125846-1	FERRITE BEAD, 600 OHM .5A 0805	<u> </u>
F8500	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 1
F8501	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	F 1
F8502	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 3
F8503	125846-1	FERRITE BEAD, 600 OHM .5A 0805	F 4
F8600	125846-1	FERRITE BEAD, 600 OHM .5A 0805	D 1
FB601	125846-1	FERRITE BEAD, 600 OHM .5A 0805	D 1
FB602	125846-1	FERRITE BEAD, 600 OHM .5A 0805	E 3
FB603	125846-1	FERRITE BEAD, 600 OHM .5A 0805	E 4
FB700	125846-1	FERRITE BEAD, 600 OHM .5A 0805	C 1
FB701	125846-1	FERRITE BEAD, 600 OHM .5A 0805	C 1
FB702	125846-1	FERRITE BEAD, 600 OHM .5A 0805	СЗ
F8703	125846-1	FERRITE BEAD, 600 OHM .5A 0805	C 4
F8800	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 1
F8801	125846-1	FERRITE BEAD, 600 OHM .5A 0805	B 1
F8802	125846-1	FERRITE BEAD, 500 OHM .5A 0805	ВЗ
F8803	125846-1	FERRITE BEAD, 600 OHM .5A 0805	В 4
F8901	125846-1	FERRITE BEAD, 600 OHM .5A 0805	D6
J1	127183-1	HEADER, 26 PIN 0.1 CTRS	G 6
J2	127183-1	HEADER, 26 PIN Ø.1 CTRS	E 6
L100	126454-1	INDUCTOR, 270UH 5% SMT 1812	K 2
L101	126454-1	INDUCTOR, 270UH 5% SMT 1812	К 2
L200	126454-1	INDUCTOR, 270UH 5% SMT 1812	J 2
L201	126454-1	INDUCTOR, 270UH 5% SMT 1812	J 2
L300	126454-1	INDUCTOR, 270UH 5% SMT 1812	H 2
L301	126454-1	INDUCTOR, 2700H 5% SMT 1812	I 2
L400	126454-1	INDUCTOR, 2700H 5% SMT 1812	<u> </u>
L401	126454-1		<u> </u>
L401			······································
	126454-1		F 2
L501	126454-1	INDUCTOR, 2700H 5% SMT 1812	F 2
L600	126454-1	INDUCTOR, 270UH 5% SMT 1812	D 2
L601	126454-1	INDUCTOR, 270UH 5% SMT 1812	D 2
TROLLED C	OPY, COPIES OF	ED RED INK BY CM AS A THESE DOCUMENTS DNIC REPRODUCTIONS	, I
ESE DRAWI	NGS AND SPECIFIC CROWN INTERNAT	CATIONS ARE THE SIZE DWG NO. IONAL, INC. AND A 12669	Ø-3 A
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		and a second	PARTS LIST	 			MAP LOC.
EF DES		DESCRIPTION			·····	M	C 2
_700	126454-1	INDUCTOR, 270	and the second				<u> </u>
_701	126454-1	INDUCTOR, 270					A 2
-800	126454-1	INDUCTOR, 270					B 2
-801	126454-1	INDUCTOR, 270 INDUCTOR, 53U					C 6
-900	125715-1	INDUCTOR, 530	way in a second s				B 6
-901	127060-1	INDUCTOR, 220					<u> </u>
-902	127060-1	INDUCTOR, 220			<u></u>		<u> </u>
-903	127060-1	INDUCTOR, 220					B 5
-904 -900	127060-1	HEADER. 6 POS					D_5
	C 9931-4	MMBT5087LT1 P					к з
100 101	C 9931-4	MMBT5087LT1 P					K 4
2200	C 9931-4	MMBT5087LT1 P					к э
1200 1201	C 9931-4	MMBT5087LT1 P					
		MMBT5087LT1 P			<u></u>		нз
0300	C 9931-4 C 9931-4	MMBT5087LT1 P					<u> </u>
0301 0400	C 9931-4	MMBT5087LT1 P					нз
	C 9931-4	MMBT5087LT1 P					H 4
0401 0500	C 9931-4	MMBT5087LT1 P			<u></u>		F 3
0501	C 9931-4	MMBT5087LT1 P			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		F 4
0600	C 9931-4	MMBT5087LT1 P					Е З
0601	C 9931-4	MMBT5087LT1 P					E 4
0700	C 9931-4	MMBT5087LT1 P					С 3
Q701	C 9931-4	MMBT5087LT1 P					C 4
0800	C 9931-4	MMBT5087LT1 P	and the second				83
Q801	C 9931-4	MMBT5087LT1 P					B 4
0900	126410-1	FET, N-CHNL 2					B 5
R1		1.KOHM .1W 1%					<u> </u>
R2	A11371-1501	15 OHM . 1W 5%					H 5
R3				8			H 5
R5	······································	47.5 OHM .1W			<u> </u>		H 5
R6	A11368-10021	10K 1/10W 1%	and the second		<u></u>		Н 5
RB	A11368-10021	10K 1/10W 1%			<u></u>		I 5
R11	A11368-10021	10K 1/10W 1%					I 5
R12		1.KOHM .1W 1%					H 4
R13	A11371-1501	15 OHM . 1W 5%					G 5
R14	A11368-47851	47.5 OHM .1W	1% 0805 T/	R			G 5
R17	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			НБ
R19	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			G 5
R22	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			H 5
R23	A11368-47R51	47.5 OHM .1W	1% 0805 T/	R			Н 5
R24		47.5 OHM .1W					Н 5
R25	A11368-47R51	47.5 OHM .1W	1% 0805 T/	R			G 5
R26	A11368-47R51	47.5 OHM .1W	1% 0805 T/	R			G 5
R27	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			D 5
R28	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R			D 5
R29	A11368-47R51						G 6
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	ERENCE ONLY. INGS AND SPECIFICA	TIONS ARE THE	SIZE DWG NO.				
	E CROWN INTERNATIONS REPRODUCED, COP		A		12669	10-7	i -
	IS FOR THE MANUFAC			T	and the second s	1	

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R30		10K 1/10W 1% SMD 0805 T/R	НБ
R31		47.5 OHM .1W 1% 0805 T/R	НБ
R32	A11368-10021	10K 1/10W 1% SMD 0805 T/R	Н 5
R32		47.5 OHM .1W 1% 0805 T/R	G 6
	A11368-47851	47.5 OHM .1W 1% 0805 T/R	F 5
R35		47.5 OHM .1W 1% 0805 T/R	F 5
R36	A11368-47R51		F 5
R37	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	F 5
R38	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	F 6
R39		10K 1/10W 1% SMD 0805 T/R	
R40	A11368-47R51		H 5
R41	A11368-10021		F 5
R42	and the second	10K 1/10W 1% SMD 0805 T/R	F 6
R44	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	G 5
R45	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	G 5
R46	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	G 5
R47	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	F 5
R48	A11368-10021	10K 1/10W 1% SMD 0805 T/R	G 6
R50	and a second	10K 1/10W 1% SMD 0805 T/R	G 5
R51	and the second	10K 1/10W 1% SMD 0805 T/R	G 6
R52	and the second se	1.KOHM .1W 1% CHIP 0805	E 4
R53	A11371-1501	15 OHM .1W 5% 0805 T/R	F 5
		47.5 OHM .1W 1% 0805 T/R	F 5
R54	A REAL PROPERTY OF THE OWNER OWNER OWNER OWNER		F 5
R60		10K 1/10W 1% SMD 0805 T/R	G 5
R63		10K 1/10W 1% SMD 0805 T/R	
R64		1.KOHM .1W 1% CHIP 0805	
R65	A11371-1501	15 OHM . 1W 5% 0805 T/R	E 5
R66	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	E 5
R70	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	E 5
R72	A11368-10021	10K 1/10W 1% SMD 0805 T/R	F 5
R75	A11368-10021	10K 1/10W 1% SMD 0805 T/R	F 5
R100	A11368-20031	200K 0.1W 1% SMD CHIP 0805	K 1
R101	A11368-20031	200K 0.1W 1% SMD CHIP 0805	L 1
R102	A11368-10021	10K 1/10W 1% SMD 0805 T/R	K 1
R103		20.KOHM .1W 1% CHIP 0805	K Z
R104	A CONTRACTOR OF A CONTRACTOR O	20.KOHM .1W 1% CHIP 0805	К 2
R105		2.0K, 0.10W 1% MF 0805	К 2
R106		2.0K, 0.10W 1% MF 0805	L 2
	ter and the second s	3.01K 1/10W 1% SMD 0805 T/R	К 4
R107		3.01K 1/10W 1% SMD 0805 T/R	КЗ
R108	And a strength of the second se		
R109	and the second se	20. KOHM . 1W 1% CHIP 0805	К 3
R110		10K 1/10W 1% 5MD 0805 T/R	
R111	126472-1	POT, 10K AUD TAPER R/A PC MT	
R112		75.0HM 1/10W 1% SMD 0805 T/R	
R113	A11368-20021		L 4
R114		10K 1/10W 1% SMD 0805 T/R	K 4
R115		20.KOHM .1W 1% CHIP 0805	КЗ
R116	A11368-20021	20.KOHM .1W 1% CHIP 0805	К 4
	1		
	-		
ONTROLLED ONCLUDING AS	OPY, COPIES OF T	ED INK BY CM AS A	
HESE DRAWI	NGS AND SPECIFIC CROWN INTERNATIONE REPRODUCED. COM	DNAL, INC. AND Δ 126690-	- 3 RE
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		PARTS LIST			
REF DES	C.P.N.	DESCRIPTION		MAP LOC.	
R117		20.KOHM .1W 1% CHIP 0805	. <u> </u>	К 4	
R118	and the second	2.0K, 0.10W 1% MF 0805		K 4	
R119	A11368-20021	20.KOHM .1W 1% CHIP 0805		К 4	
R120		20.KOHM .1W 1% CHIP 0805	-, <u>4-</u> , -	К 4	
R121		150. OHM .1W 5% CHIP 0805		I 5	
R122	the second se	150. OHM .1W 5% CHIP 0805		I 5	
R200	the second s	200K 0.1W 1% SMD CHIP 0805			
R201		200K 0.1W 1% SMD CHIP 0805		J 1	
		10K 1/10W 1% SMD 0805 T/R		J 1	
R202					
R2Ø3		20.KOHM .1W 1% CHIP 0805		J 2	
R204	and the second	20.KOHM .1W 1% CHIP 0805			
R205		2.0K, 0.10W 1% MF 0805		JZ	
R206	and the second	2.0K, 0.10W 1% MF 0805		J 2	
R207	A11368-30111	3.01K 1/10W 1% SMD 0805 T/R		К 4	
R208	the second se	3.01K 1/10W 1% SMD 0805 T/R		КЗ	
R2Ø9	A11368-20021	20.KOHM .1W 1% CHIP 0805		J 4	
R210	A11368-10021	10K 1/10W 1% SMD 0805 T/R		КЗ	
R211	126472-1	POT, 10K AUD TAPER R/A PC MT		J 1	
R212		75.0HM 1/10W 1% SMD 0805 T/R		J3	
R213		20.KOHM .1W 1% CHIP 0805		J 4	
R214		10K 1/10W 1% SMD 0805 T/R		J 4	
R215		20.KOHM .1W 1% CHIP 0805		КЗ	
				<u>к 5</u> К 4	
R216		20.KOHM .1W 1% CHIP 0805			
R217		20.KOHM .1W 1% CHIP 0805		К 4	
R218		2.0K, 0.10W 1% MF 0805		К 4	
R219	A11368-20021	20.KOHM .1W 1% CHIP 0805		J 4	
R220	A11368-20021	20.KOHM .1W 1% CHIP 0805		<u> </u>	
R221	A11371-1511	150. OHM .1W 5% CHIP 0805		H 5	
R222	A11371-1511	150. OHM .1W 5% CHIP 0805		Н 5	
R300	A11368-20031	200K 0.1W 1% SMD CHIP 0805		H 1	
R301	A11368-20031	200K 0.1W 1% SMD CHIP 0805		I 1	
R302	A11368-10021	10K 1/10W 1% SMD 0805 T/R		I 1	
R303		20.KOHM . 1W 1% CHIP 0805		H 2	
R304	the second se	20.KOHM .1W 1% CHIP 0805		I 2	
R305		2.0K, 0.10W 1% MF 0805		H 2	
				I 2	
R306		2.0K, 0.10W 1% MF 0805		<u>I 2</u>	
R307		3.01K 1/10W 1% SMD 0805 T/R			_
R308	and the second	3.01K 1/10W 1% SMD 0805 T/R		<u>H3</u>	
R309		20.KOHM .1W 1% CHIP 0805		<u>I 4</u>	
R310		10K 1/10W 1% SMD 0805 T/R		НЗ	
R311	126472-1	POT. 10K AUD TAPER R/A PC MT		<u> </u>	
R312	A11368-75R01	75.0HM 1/10W 1% SMD 0805 T/R		<u> </u>	
R313	A11368-20021	20.KOHM .1W 1% CHIP 0805		I 4	
R314	A11368-10021	10K 1/10W 1% SMD 0805 T/R		I 4	
R315	A11368-20021	20.KOHM .1W 1% CHIP 0805		НЗ	
R316	A11368-20021			H 4	
R317	A11368-20021			H 4	
		······································			
	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
NTROLLED O	UNCONTROLLE WISE MARKED IN RE COPY, COPIES OF TH SOCIATED ELECTROM RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS			
HESE DRAWI	NGS AND SPECIFICA CROWN INTERNATIO E REPRODUCED, COP	NAL, INC. AND	12669	0-3	RE
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		PARTS LIST	MAP LOC.
REF DES		DESCRIPTION	H 4
R318		2.0K, 0.10W 1% MF 0805	I 4
R319		20.KOHM .1W 1% CHIP 0805 20.KOHM .1W 1% CHIP 0805	Н 4
R320	And a state of the	150. OHM .1W 5% CHIP 0805	Н 5
R321	and the second design of the s	150. OHM .1W 5% CHIP 0805	Н 4
R322	A11371-1511	200K 0.1W 1% SMD CHIP 0805	G 1
R400		200K 0.1W 1% SMD CHIP 0805	G 1
R401	A11368-20031	10K 1/10W 1% SMD 0805 T/R	G 1
R402	A11368-10021	20.KOHM .1W 1% CHIP 0805	G 2
R403		20.KOHM .1W 1% CHIP 0805	G 2
R404	A11368-20021	2.0K, 0.10W 1% MF 0805	G 2
R405		2.0K, 0.10W 1% MF 0805	G 2
R406	A11368-20011	3.01K 1/10W 1% SMD 0805 T/R	Н 4
R407	A11368-30111	3.01K 1/10W 1% SMD 0805 T/R	НЗ
R408	A11368-30111	20.KOHM .1W 1% CHIP 0805	G 4
R409	A11368-20021	10K 1/10W 1% SMD 0805 T/R	НЗ
R410		POT, 10K AUD TAPER R/A PC MT	H 1
R411	126472-1	75.0HM 1/10W 1% SMD 0805 T/R	G 3
R412		20.KOHM .1W 1% CHIP 0805	G 4
R413	A11368-20021	10K 1/10W 1% SMD 0805 T/R	Н 4
R414		20.KOHM .1W 1% CHIP 0805	НЗ
R415	A11368-20021	20.KOHM .1W 1% CHIP 0805	Н 4
R416	A11308-20021	20. KOHM . 1W 1% CHIP 0805	H 4
R417		2.0K, 0.10W 1% MF 0805	Н 4
R418		20.KOHM .1W 1% CHIP 0805	н 4
R419		20. KOHM . 1W 1% CHIP 0805	Н 4
R420	A11388-20021	150. OHM .1W 5% CHIP 0805	G 4
R421	A11371-1511	150. OHM .1W 5% CHIP 0805	G 4
R422		200K 0.1W 1% SMD CHIP 0805	F 1
R500	A11368-20031	200K 0.1W 1% SMD CHIP 0805	F 1
R501	A11368-10031	10K 1/10W 1% SMD 0805 T/R	F 1
R502		20.KOHM .1W 1% CHIP 0805	F 2
R503		20.KOHM .1W 1% CHIP 0805	F 2
R504		2.0K, 0.10W 1% MF 0805	F 2
R505		Z. 0K, 0.10W 1% MF 0805	F 2
R506	A11268-30111	3.01K 1/10W 1% SMD 0805 T/R	F 4
R507	A11368-30111	3.01K 1/10W 1% SMD 0805 T/R	E 3
R508	A11268-20021	20.KOHM .1W 1% CHIP 0805	F 4
R509	A11308-20021	10K 1/10W 1% SMD 0805 T/R	F 3
R510	126472-1	POT, 10K AUD TAPER R/A PC MT	F 1
R511		75.0HM 1/10W 1% SMD 0805 T/R	G 4
R512 R513	A11369-20021	20. KOHM . 1W 1% CHIP 0805	F 4
	A11368-1002	10K 1/10W 1% SMD 0805 T/R	F 4
R514	A11360-1002	20.KOHM .1W 1% CHIP 0805	E 3
R515	A11260-2002	20.KOHM .1W 1% CHIP 0805	F 4
R516	A11360-2002	20.KOHM .1W 1% CHIP 0805	F 4
R517	A11368-2002	2.0K, 0.10W 1% MF 0805	F 4
R518	A11300-2001	2. BK, B. 18W 17. W. 5555	
		ED RED INK BY CM AS A	
NTROLLED	COPY, COPIES OF ASSOCIATED ELECTR	HESE DOCUMENTS DNIC REPRODUCTIONS	
	FERENCE ONLY.	ATIONS ARE THE SIZE DWG NO.	
ROPERTY C	OF CROWN INTERNAT	ONAL, INC. AND A 1200	690-3
S THE BAS	BE REPRODUCED. CO	CTURE OR SALE	
	US OR DEVICES WIT	HOUT PERMISSION. SCALE NONE PROJ NO. MD404D0	SHEET 16 OF 22

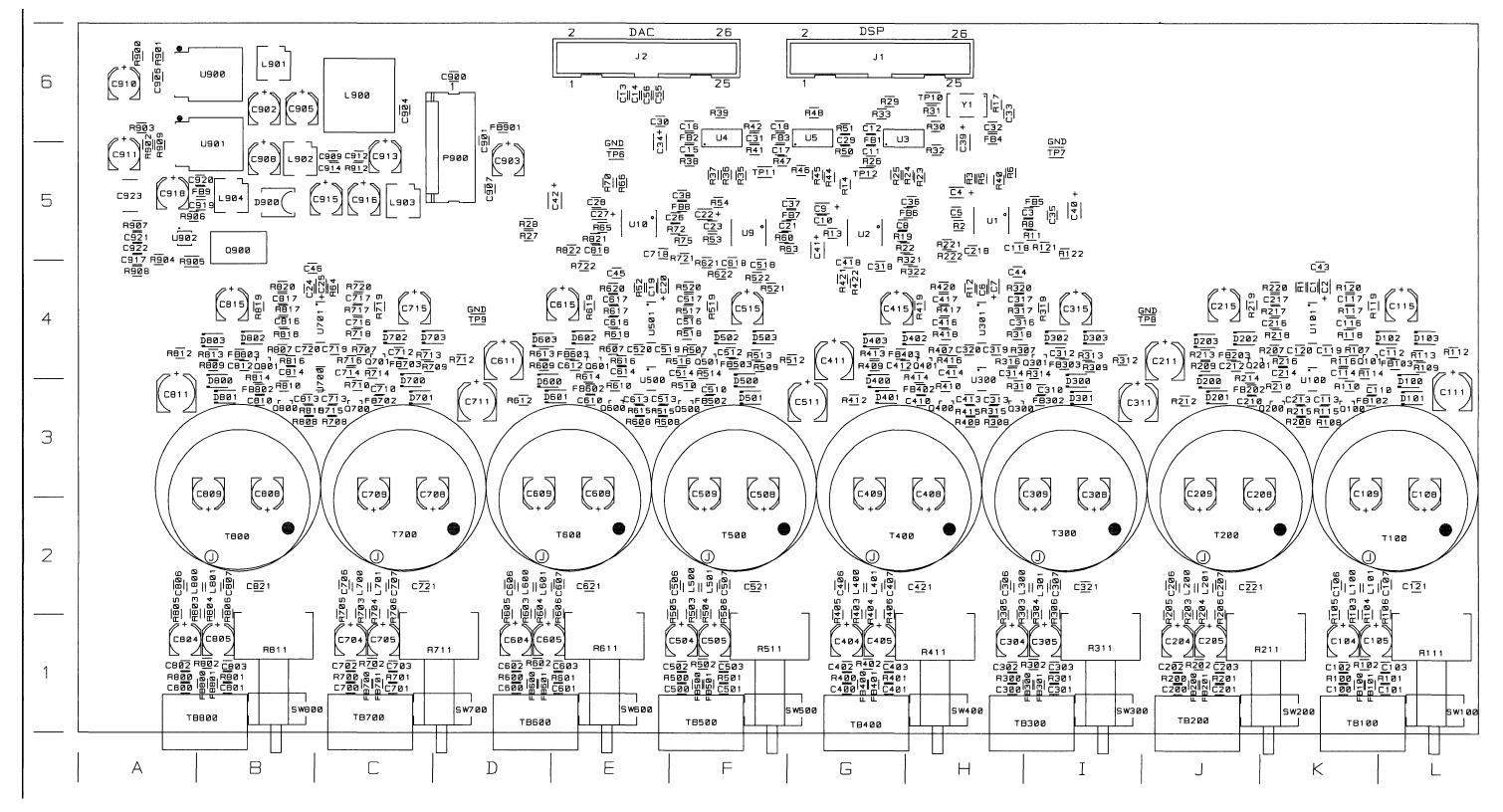
EF DES	L. P. N.	DESCRIPTION	PARTS LIST		MAP LDC.	
1519		20. KOHM . 1W		5	F 4	
3520		20.KOHM . 1W			F 4	
7521		150. OHM . 1W		*****	F 4	
3522	A11371-1511	150. OHM . 1W			F 4	
R600		200K 0.1W 1%			D 1	
7601		200K 0.1W 1%			E 1	
7602		10K 1/10W 1%		······	D 1	
7603		20.KOHM .1W			D 1	
7604		20.KOHM .1W	and the second		D 2	···
7605		2.0K. 0.10W			D 2	
R606		2.0K, 0.10W	and the second data		E 2	
R607		3.01K 1/10W		T/R	E 4	
R608		3.01K 1/10W		and the second	E3	
1609		20.KOHM .1W			 D 4	
7610		10K 1/10W 1%			Ε 3	
7611	126472-1	POT, 10K AUD			E 1	
8612		75.0HM 1/10W		and the second	D 3	
R613		20.KOHM . 1W			D 4	
R614		10K 1/10W 1%			E 4	
R615		20.KOHM . 1W			E 3	•
7616		20.KOHM .1W		The second se	E 4	
R617		20.KOHM .1W			E 4	
8618		2.0K, 0.10W		······································	E 4	•
1619	A11368-20021	20.KOHM .1W	1% CHIP 080	5	E 4	••••••
1620		20.KOHM .1W			E 4	•
1621	A11371-1511	150. OHM .1W	5% CHIP Ø8	05		
8622	A11371-1511	150. OHM .1W			F 4	
700	A11368-20031	200K 0.1W 1%	SMD CHIP Ø	805	C 1	
8701		200K 0.1W 1%			C 1	
702	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R	C 1	
703	A11368-20021	20. KOHM . 1 W	1% CHIP 080	5	C 2	
8704		20.KOHM .1W			C 2	
705	A11368-20011	2.0K, 0.10W	1% MF 0805		C 2	
706		2.0K. 0.10W			C 2	
R707	A11368-30111	3.01K 1/10W 1	X SMD 0805	T/R	C 4	
708	A11368-30111	3.01K 1/10W	1% SMD 0805	T/R	СЗ	
709	A11368-20021	20.KOHM .1W	1% CHIP 080	5	C 4	
8710		10K 1/10W 1%			СЗ	
8711	126472-1	POT, 10K AUD	TAPER R/A	PC MT	C 1	
8712		75.0HM 1/10W			D 4	
1713	A11368-20021	20.KOHM .1W 1	1% CHIP 080	5	C 4	
8714		10K 1/10W 1%			C 4	
1715	A11368-20021	20.KOHM .1W	1% CHIP 080	5	СЗ	
8716	A11368-20021	20.KOHM .1W	1% CHIP 080	5	C 4	
8717	A11368-20021	20. KOHM . 1 W			C 4	
718	A11368-20011	2.0K, 0.10W	1% MF 0805	<u> </u>	C 4	
1719	A11368-20021	20.KOHM .1W		5	C 4	
			••••••••••••••••••••••••••••••••••••••	· · ·		
					······	
ROLLED CO UDING ASS	UNCONTROLLE WISE MARKED IN RE DPY, CDPIES OF TH SOCIATED ELECTRON RENCE ONLY.	D INK BY CM AS A ESE DOCUMENTS				
SE DRAWIN	GS AND SPECIFICA	TIONS ARE THE	SIZE DWG NO.			RE
PERTY OF LL NOT RF	CROWN INTERNATIO	NAL, INC. AND IED. OR USED	A	12669	30-3	A
THE BASIS	FOR THE MANUFAC	TURE OR SALE			1	`
APPARATUS	GOR DEVICES WITH	DUT PERMISSION.	SCALE NONE	PROJ NO. MD404D0	SHEET 17 OF 22	

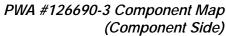
REF DES	C P N	DESCRIPTION	MAP LOC.
R720		20.KOHM .1W 1% CHIP 0805	C 4
R721	A11371-1511	150. OHM .1W 5% CHIP 0805	F 5
R722	A11371-1511	150. OHM .1W 5% CHIP 0805	E 4
	A11368-20031	200K 0.1W 1% SMD CHIP 0805	A 1
R800		200K 0.1W 1% SMD CHIP 0805	B 1
R801			B 1
R802		10K 1/10W 1% SMD 0805 T/R	A 2
R803		20.KOHM .1W 1% CHIP 0805	B 2
R804	the second s	20.KOHM .1W 1% CHIP 0805	A 2
R805		2.0K. 0.10W 1% MF 0805	B 2
R806		2.0K, 0.10W 1% MF 0805	B 4
R807	A11368-30111		B
R808		3.01K 1/10W 1% SMD 0805 T/R	<u> </u>
R809		20.KOHM .1W 1% CHIP 0805	
R810		10K 1/10W 1% SMD 0805 T/R	<u>B3</u>
R811	126472-1	POT, 10K AUD TAPER R/A PC MT	<u>B 1</u>
R812	and the second se	75.0HM 1/10W 1% SMD 0805 T/R	A 4
R813	and the second	20.KOHM .1W 1% CHIP 0805	<u> </u>
R814		10K 1/10W 1% SMD 0805 T/R	84
RB15		20.KOHM .1W 1% CHIP 0805	<u> </u>
R816		20.KOHM .1W 1% CHIP 0805	<u> </u>
R817	and the second	20.KOHM .1W 1% CHIP 0805	<u> </u>
R818	and the second sec	2.0K, 0.10W 1% MF 0805	<u> </u>
R819	· · · · · · · · · · · · · · · · · · ·	20.KOHM .1W 1% CHIP 0805	<u> </u>
R820	A11368-20021	20.KOHM .1W 1% CHIP 0805	<u> </u>
R821	A11371-1511	150. OHM .1W 5% CHIP 0805	<u> </u>
R822	A11371-1511	150. OHM .1W 5% CHIP 0805	E 5
R900	A11368-10521	10.5K .10W 1% MF 0805	A 6
R901	A11368-10011	1.KOHM .1W 1% CHIP 0805	A 6
R902	A11368-10521	10.5K .10W 1% MF 0805	A 5
R903	A11368-10011	1.KOHM .1W 1% CHIP 0805	A 6
R904	A11368-20031	200K 0.1W 1% SMD CHIP 0805	A 5
R905	127080-1	RES, 0.7870HM 1% SMT 1206	A 4
R906		OPEN	A 5
R907	A11368-61931	619K OHM .1W 1% 0805 T/R	A 5
R908	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 4
R909	A11368-20021	20.KOHM .1W 1% CHIP 0805	A 5
R912	A11368-10021	10K 1/10W 1% SMD 0805 T/R	C 5
SW100	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	L 1
SW200	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	J 1
SW300	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	- I 1
5W400	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	H 1
SW500	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	F 1
5W600	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	E 1
5W700	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	C 1
SW800	126645-1	SWITCH, 2P3T SLIDE R/A PC MT	B 1
T100	1	OPEN	L 3
T200	1	OPEN	J 3
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EF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
300		OPEN	IЗ
400		OPEN	G 3
500		OPEN	F 3
600		OPEN	E 3
700		OPEN	СЗ
800		OPEN	ВЗ
B100	C 9676-5	3 POS, R/A 5MM HDR RND PIN	K 1
8200	C 9676-5	3 POS, R/A 5MM HDR RND PIN	J 1
8300	C 9676-5	3 POS, R/A 5MM HDR RND PIN	Н 1
B400	C 9676-5	3 POS, R/A 5MM HDR RND PIN	<u> </u>
8500	C 9676-5	3 POS, R/A 5MM HDR RND PIN	F 1
B600	C 9676-5	3 POS, R/A 5MM HDR RND PIN 3 POS, R/A 5MM HDR RND PIN	
8800	C 9676-5	3 POS, R/A 5MM HDR RND PIN	A 1
P1	127064-1	TEST POINT, SMT 1206	E 5
P2	127054-1	TEST POINT, SMT 1205	I 5
TP3	127064-1	TEST POINT, SMT 1206	J 4
rP4	127054-1	TEST POINT, SMT 1206	D 4
P5	127064-1	TEST POINT, SMT 1206	Нб
P6	127064-1	TEST POINT, SMT 1206	F 5
TP7	127064-1	TEST POINT, SMT 1206	G 5
J1	125630-1	ADC, 24BIT C55360-KS 20 SSOP	Н 5
J2	125630-1	ADC, 24BIT CS5360-KS 20 SSOP	<u> </u>
13	126509-1	IC, 49FCT805 CLK DRIVER QSOP	G 6
J4	126509-1	IC, 49FCT805 CLK DRIVER QSOP	F 6
J5	126509-1	IC. 49FCT805 CLK DRIVER QSOP	G 6
79	125630-1	ADC, 24BIT C55360-KS 20 SSOP	F 5
<u>110</u>	125630-1	ADC, 24BIT C55360-K5 20 550P	E 5 K 4
J100	C 8262-5	MC33078D LOW NOISE DUAL OP AMP MC33274 1MV OFFET QUAD OPAMP	<u> </u>
J101 J300	102158-1 C 8262-5	MC3307BD LOW NOISE DUAL OP AMP	H 4
J300	102158-1	MC33274 1MV OFFET QUAD OPAMP	H 4
1500	C 8262-5	MC33078D LOW NOISE DUAL OP AMP	E 4
J501	102158-1	MC33274 1MV OFFET QUAD OPAMP	E 4
J700	C 8262-5	MC33078D LOW NOISE DUAL OF AMP	C 4
J701	102158-1	MC33274 1MV OFFET QUAD OPAMP	C 4
1900	127078-1	IC. LM2941 LDO REF POS ADJ	86
J9Ø1	127079-1	IC. LM2991 LDO REG NEG ADJ	85
J902	127077-1	IC, MAX668 PWR CTL SMT	A 5
Y1	127281-1	05C, 12.288 MHZ 5V SMT	Нб
<u> </u>	126689-3	PWB, USMB10 INPUT	

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Module Parts 8-29

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PWA #126693-4

Output Module PWB #126692-4 Schematic #126693-4 Rev. A

			PARTS LIST				
EF DES	C. P. N.	DESCRIPTION				MAP LOC.	
:1	127074-1	CAP, 220UF 6.				<u> </u>	
2	A11427-104K2	.1UF 50V CHIP	CAP 10% 0	305 X7R		B 4	
3	A11369-102J2	.001UF 50V 5%	NPO MLC 00	305 T/R		A 4	
4	A11369-102J2	.001UF 50V 5%	NPO MLC 08	305 T/R		B 4	
5	C10391-B	10.UF 16V 20%	TANTALUM S	SMT		C 4	
6	A11427-104K2	.1UF 50V CHIP	CAP 10% 00	305 X7R	,	A 4	
7		.1UF 50V CHIP	and the second se	and the second data was a second data w		ВЗ	
8		.1UF 50V CHIP				D 4	
9	127075-1	CAP, 100UF 15				В 3	
10		.1UF 50V CHIP				E 4	
	127075-1	CAP, 100UF 16				B 3	
11				Carlos - Car		D 4	
12		.1UF 50V CHIP					
13	C10391-8	10.UF 16V 20%				F 4	
14		.1UF 50V CHIP				<u> </u>	
15		1.UF 16V 20%				F 4	
16		.1UF 50V CHIP				<u> </u>	
17		.001UF 50V 5%				<u> </u>	
18	A11369-102J2	.001UF 50V 5%	NPO MLC 0	305 T/R		<u> </u>	
19	102438-221K2	220PF 200V 10	% NPO 0805	T/R		H 4	
20		220PF 200V 10				H 4	
21		22 PF 5% 50V				I 4	
22		.001UF 50V 5%				G 4	
23		.001UF 50V 5%				G 4	
24	and the second se	220PF 200V 10				G 4	
25		220PF 200V 10				G 4	
		22 PF 5% 50V				H 4	
26				16		H 4	
27		100PF 200V NP					
28	126475-1	CAP, AL 47UF				<u> </u>	
29		100PF 200V NP				<u> </u>	
30	126475-1	CAP, AL 47UF				<u> </u>	
31	102438-101K2	100PF 200V NP				<u> </u>	
32	126475-1	CAP, AL 47UF				I 2	
:33	102438-101K2	100PF 200V NP	0 0805 T/R			<u> </u>	
34	126475-1	CAP, AL 47UF	35V SMT			IЗ	
35	A11369-152J2	1500PF 50V 5%	NPO MLC Ø	805 T/R		<u>н 1</u>	
36	A11369-152J2	1500PF 50V 5%	NPO MLC 0	805 T/R		I 1	
:37		220PF 200V 10				H 1	
38		220PF 200V 10				I 1	
39	and the second	1500PF 50V 5%				G 1	
40		1500PF 50V 5%			<u></u>	Н 1	
241		220PF 200V 10				<u> </u>	
.41		220FF 200V 10				н 1	
						——————————————————————————————————————	
.43		.1UF 50V CHIP					
:44		.1UF 50V CHIP				<u>H 4</u>	
245		.1UF 50V CHIP				<u> </u>	
46		.1UF 50V CHIP				<u> </u>	
.47	A11369-102J2	.001UF 50V 5%	NPO MLC 0	805 T/R	·····	<u> </u>	
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		PAR	TS LIST				
REF DES	C. P. N.	DESCRIPTION				MAP LOC.	
C48	A11369-102J2	.001UF 50V 5% NF	PO MLC 08	05 T/R		B 4	
C49	and the second	.001UF 50V 5% NF				E 4	
C50	and the second	.001UF 50V 5% NF				E 4	
C51		.001UF 50V 5% NF				D 4	_
C52	A11369-102J2	.001UF 50V 5% NF	°O MLC Ø8	05 T/R		G 4	_
C54	C10391-8	10.UF 16V 20% T/	ANTALUM 5	мт		СЗ	
C55	C10391-8	10.UF 16V 20% T/	ANTALUM 5	мт		E 3	
C56	C10391-8	10.UF 16V 20% T/	ANTALUM S	мт		F 3	
C57	C10391-8	10.UF 16V 20% TA	ANTALUM 5	мт		G 3	
C100	A11427-104K2	.1UF 50V CHIP CA	AP 10% 08	05 X7R		G 3	
C101	C10359-5	1. UF 16V 20% TAM	NTALUM SM	Т		G 3	
C102	A11427-104K2	.1UF 50V CHIP CA	AP 10% 08	05 X7R		G 3	
C103	A11427-104K2	.1UF 50V CHIP CA	AP 10% 08	05 X7R		G 2	
C104		.1UF 50V CHIP CA				G 2	
C105		.001UF 50V 5% N				G 4	
C110	and the second	.001UF 50V 5% N				F 3	
C111		.001UF 50V 5% N				G 2	
C112		220PF 200V 10% 1			<u></u>	G 2	
C112	and the second se	220PF 200V 10% 1				<u> </u>	
C114		22 PF 5% 50V NP				 G 2	-
C115		100PF 200V NPD 1				<u> </u>	
C115		100PF 200V NPO				<u> </u>	-
C115	126475-1	CAP, AL 47UF 35				G 2	-
		CAP, AL 47UF 35				<u> </u>	
C118	126475-1					<u> </u>	
C119	a contract of the second s	1500PF 50V 5% N				G 1	
C120		1500PF 50V 5% N				G 1	
C121		220PF 200V 10%				G 1	
C122	and the second	220PF 200V 10%				F 2	
C203		.1UF 50V CHIP C				F 2	
C204		.1UF 50V CHIP C				F 2	-
C210		.001UF 50V 5% N				F_3 F_2	
C211	and the second	.001UF 50V 5% N	and the second				
C212		220PF 200V 10%				F 2	
C213		220PF 200V 10%				F 2	
C214		22 PF 5% 50V NP		Р		F 2	
C215	and the second sec	100PF 200V NPO				F 2	
C216	102438-101K2	100PF 200V NPO				F 2	
C217	126475-1	CAP, AL 47UF 35				<u>F 2</u>	
C218	126475-1	CAP, AL 47UF 35				F 2	
C219		1500PF 50V 5% N				F 1	
C220		1500PF 50V 5% N				F 1	
C221	102438-221K2	220PF 200V 10%	NPO 0805	T/R		F 1	
C222		220PF 200V 10%				F 1	
C300	A11427-104K2	.1UF 50V CHIP C	AP 10% 08	305 X7R		Е З	
C301	C10359-5	1.UF 16V 20% TA				E 3	
C302		.1UF 50V CHIP C				F 3	
C303	and the second se	.1UF 50V CHIP C				E 2	
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	S OR DEVICES WITH		ALE NONE	PROJ NO.	MD404D0	SHEET 6 OF 19	

DEE DEC		PARTS LIST	MAP LOC.		
	and the second		E 2		
C304	and a state of the second state of the	.1UF 50V CHIP CAP 10% 0805 X7R .001UF 50V 5% NPO MLC 0805 T/R	F 3		
C305			E 3		
C310		.001UF 50V 5% NPO MLC 0805 T/R .001UF 50V 5% NPO MLC 0805 T/R	E 2		
C311		220PF 200V 10% NPO 0805 T/R	E 2		
C312			E 2		
C313	the second s	220PF 200V 10% NPO 0805 T/R	E 2		
<u>C314</u>		22 PF 5% 50V NPO CER CHIP	E 2		
C315	A second start of the second st	100PF 200V NPO 0805 T/R			
C316		100PF 200V NPO 0805 T/R	<u> </u>		
C317	126475-1	CAP, AL 47UF 35V SMT	<u>E 2</u>		
C318	126475-1	CAP, AL 47UF 35V SMT	E 2		
C319		1500PF 50V 5% NPO MLC 0805 T/R	E 1		
C320		1500PF 50V 5% NPO MLC 0805 T/R	<u> </u>		
C321		220PF 200V 10% NPO 0805 T/R	E 1		
C322		220PF 200V 10% NPO 0805 T/R	<u> </u>		
C403		.1UF 50V CHIP CAP 10% 0805 X7R	D 2		
C404		.1UF 50V CHIP CAP 10% 0805 X7R	D 2		
C410		.001UF 50V 5% NPO MLC 0805 T/R	D 3		
C411	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	D 2		
C412		220PF 200V 10% NPO 0805 T/R	D 2		
C413	102438-221K2	220PF 200V 10% NPO 0805 T/R	D 2		
C414	A11369-220J2	22 PF 5% 50V NPO CER CHIP	E 2		
C415	102438-101K2	100PF 200V NPO 0805 T/R	D 2		
C416	102438-101K2	100PF 200V NPO 0805 T/R	E 2		
C417	126475-1	CAP, AL 47UF 35V SMT	D 2		
C418	126475-1	CAP, AL 47UF 35V SMT	E 2		
C419	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	D 1		
C420	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	D 1		
C421	102438-221K2	220PF 200V 10% NPO 0805 T/R	D 1		
C422	102438-221K2	220PF 200V 10% NPO 0805 T/R	D 1		
C500	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 3		
C5Ø1	C10359-5	1.UF 16V 20% TANTALUM SMT	D 3		
C502	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	D 3		
C503	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 2		
C504	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	C 2		
C505	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	Е З		
C510	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	С 3		
C511	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	D 2		
C512	102438-221K2	220PF 200V 10% NPO 0805 T/R	C 2		
C513	and the second se	220PF 200V 10% NPO 0805 T/R	C 2		
C514	· · · · · · · · · · · · · · · · · · ·	22 PF 5% 50V NPO CER CHIP	D 2		
C515		100PF 200V NPO 0805 T/R	C 2		
C516	and the second se	100PF 200V NPO 0805 T/R	D 2		
C517	126475-1	CAP, AL 47UF 35V SMT	C 2		
C518	126475-1	CAP, AL 47UF 35V SMT	D 2		
C519		1500PF 50V 5% NPO MLC 0805 T/R	 D 1		
C520		9-152J2 1500PF 50V 5% NPO MLC 0805 T/R			
	1		D 1		
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T		PARTS LIST	MAP LOC.
REF DES		DESCRIPTION 220PF 200V 10% NPO 0805 T/R	D 1
C521	102438-221K2	220PF 200V 10% NPO 0805 T/R	D 1
C522	and the second	1UF 50V CHIP CAP 10% 0805 X7R	B 2
C603	A11427-104K2 A11427-104K2	1UF 50V CHIP CAP 10% 0805 X7R	B 2
C604	A11427-104K2 A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	В 3
C610		.001UF 50V 5% NPO MLC 0805 T/R	C 2
C611		220PF 200V 10% NPO 0805 T/R	C 2
C612 C613	102438-22162	220FF 200V 10% NPO 0805 T/R	B 2
C614	A11369-220.12	22 PF 5% 50V NPO CER CHIP	C 2
C615	102438-101K2	100PF 200V NPO 0805 T/R	B 2
C616	102438-101K2	100PF 200V NPO 0805 T/R	C 2
C617	126475-1	CAP, AL 47UF 35V SMT	<u>C 2</u>
C618	126475-1	CAP, AL 47UF 35V SMT	
C619	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	
C620	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	
C621	102438-221K2	220PF 200V 10% NPO 0805 T/R	
C622	102438-221K2	220PF 200V 10% NPO 0805 T/R	
C700	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C701	C10359-5	1. UF 16V 20% TANTALUM SMT	
C702	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	
C703	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	B 2
C704	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	<u>B 2</u>
C705	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	
C710	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	<u> </u>
C711		.001UF 50V 5% NPO MLC 0805 T/R	<u>B 2</u>
C712	102438-221K2	220PF 200V 10% NPO 0805 T/R	<u>B 2</u>
C713	102438-221K2	220PF 200V 10% NPO 0805 T/R	<u>B 2</u> B 2
C714	A11369-220J2	22 PF 5% 50V NPO CER CHIP	B 2
C715	102438-101K2	100PF 200V NPO 0805 T/R	B 2 B 2
C716	102438-101K2	100PF 200V NPO 0805 T/R	B 2
C717	126475-1	CAP, AL 47UF 35V SMT	B 2
C718	126475-1	CAP. AL 47UF 35V SMT	B 1
C719	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	B 1
C720	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	B 1
C721	102438-221K2	220PF 200V 10% NPO 0805 T/R	B 1
C722	102438-221K2	220PF 200V 10% NPO 0805 T/R	A 2
СВØЗ		.1UF 50V CHIP CAP 10% 0805 X7R	A 2
C804	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 3
CB10	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R	A 2
C811	A11369-102J2	.001UF 50V 5% NPO MLC 0805 T/R 220PF 200V 10% NPO 0805 T/R	A 2
C812	102438-221K2	220PF 200V 10% NPO 0805 T/R	A 2
C813	102438-221K2	22 PF 5% 50V NPO CER CHIP	A 2
CB14	A11369-220J2	100PF 200V NPO 0805 T/R	A 2
C815	102438-101K2	100PF 200V NPO 0805 T/R	A 2
C816		CAP, AL 47UF 35V SMT	A 2
C817	126475-1	CAP, AL 47UF 35V SMT	A 2
C818			
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			PARTS LIST	MAP LOC.
REF DES	And the second se	DESCRIPTION	NPO MLC 0805 T/R	A 1
C819			NPO MLC 0805 T/R	A 1
C820	and the second		% NPO 0805 T/R	A 1
C821 C822			% NPO 0805 T/R	A 1
FB2	125846-1		600 OHM .5A 0805	B 4
FB3	125846-1	FERRITE BEAD,		Н 1
FB4	125846-1	FERRITE BEAD.		Н 1
FB5	125846-1	FERRITE BEAD,	600 OHM . 5A 0805	Н 1
FB6	125846-1	FERRITE BEAD,	600 OHM . 5A 0805	Н 1
F87	125846-1	FERRITE BEAD,		В 4
FB8	125846-1	FERRITE BEAD,		B 4
F89	125846-1	FERRITE BEAD,	600 OHM . 5A 0805	D 4
FB10	125846-1	FERRITE BEAD.	600 OHM .5A 0805	E 4
FB11	125846-1	FERRITE BEAD,	600 OHM .5A 0805	D 4
FB12	125846-1	FERRITE BEAD,	600 OHM .5A 0805	G 4
F8100	125846-1	FERRITE BEAD.	600 OHM .5A 0805	G 1
FB101	125846-1	FERRITE BEAD.	600 OHM .5A 0805	G 1
FB102	125846-1	FERRITE BEAD,	600 OHM .5A 0805	G 3
F8200	125846-1	FERRITE BEAD,	600 OHM .5A 0805	F 1
FB201	125846-1	FERRITE BEAD,	600 OHM .5A 0805	F 1
FB300	125846-1	FERRITE BEAD,	600 OHM .5A 0805	E 1
FB301	125846-1	FERRITE BEAD,	600 OHM .5A 0805	E 1
FB302	125846-1	FERRITE BEAD.	600 OHM .5A 0805	F 3
FB400	125846-1	FERRITE BEAD,	600 OHM .5A 0805	D 1
FB401	125846-1	FERRITE BEAD,	600 OHM .5A 0805	D 1
F8500	125846-1	FERRITE BEAD,		D 1
FB501	125846-1	FERRITE BEAD,	······································	D 1
FB502	125846-1	FERRITE BEAD,		D 3
F8600	125846-1	FERRITE BEAD,		<u>C 1</u>
FB601	125846-1	FERRITE BEAD,		<u>C 1</u>
FB700	125846-1	FERRITE BEAD,		<u>B 1</u>
FB701	125846-1	FERRITE BEAD,		<u>B 1</u>
FB702	125846-1		600 OHM .5A 0805	С 3
F8800	125846-1	FERRITE BEAD,		A 1
F8801	125846-1	A	600 OHM .5A 0805	A 1 B 4
<u>J1</u>	127183-1	HEADER, 26 PI		A 3
L1	125715-1	INDUCTOR, 530		A 4
R1		10K 1/10W 1% 47.5 OHM .1W		A 4
R2		10K 1/10W 1%		E 4
R3 R4	and the second s	10K 1/10W 1%		E 4
R5		10K 1/10W 1%		D 4
R6	and the second	47.5 OHM .1W		D 4
R7		47.5 OHM .1W		D 4
RB	A11368-47R51			D 4
R9	A11368-47R51	47.5 OHM .1W		E 4
R10	A11368-47R51	47.5 OHM .1W		E 4
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	1			
ITROLLED C	COPY, COPIES OF TH	ED INK BY CM AS A		
	NGS AND SPECIFICA	TIONS ARE THE	SIZE DWG ND.	RE ¹
OPERTY OF	CROWN INTERNATIO	NAL, INC. AND	A 1266	593-4 A
THE BASI	E REPRODUCED, COP S FOR THE MANUFAC	TURE OR SALE		
	IS OR DEVICES WITH		SCALE NONE PROJ NO. MD404D	Ø SHEET 9 OF 19

	5 C.P.N.	DESCRIPTION	MAP LOC.
R11		47.5 OHM .1W 1% 0805 T/R	A 4
R12		10K 1/10W 1% SMD 0805 T/R	E 4
R13		10K 1/10W 1% SMD 0805 T/R	E 4
R14		10K 1/10W 1% SMD 0805 T/R	E 4
R15		47.5 OHM .1W 1% 0805 T/R	E 4
R16	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	E 4
R17	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	E 4
R1B		47.5 OHM .1W 1% 0805 T/R	E 4
R19		47.5 OHM .1W 1% 0805 T/R	E 4
R20		47.5 OHM .1W 1% 0805 T/R	A 4
R21		10K 1/10W 1% SMD 0805 T/R	D 4
R22	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 4
R23		10K 1/10W 1% 5MD 0805 T/R	D 4
R24		47.5 OHM .1W 1% 0805 T/R	D 4
R25	A11368-47R51		D 4
R26		47.5 OHM .1W 1% 0805 T/R	D 4
R27		47.5 OHM .1W 1% 0805 T/R	D 4
R28	A11368-47R51		D 4
R29	A11368-10021	10K 1/10W 1% 5MD 0805 T/R	G 4
R30	A11368-10021	10K 1/10W 1% SMD 0805 T/R	G 4
R31		OPEN	G 4
R32		OPEN	G 4
R33		OPEN	G 4
R34	A11368-10021	10K 1/10W 1% SMD 0805 T/R	G 4
R35	A11371-1501	15 OHM .1W 5% 0805 T/R	G 4
R36	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	Н 5
R37	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	H 4
R38	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	G 4
R39	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	G 4
R40	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	H 4
R41	A11368-33211	3.32K OHM .1W 1% CHIP 0805	H 4
R42	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	H 4
R43	A11368-33211	3.32K OHM .1W 1% CHIP 0805	H 4
R44	A11368-76811	7.68KOHM 0.10W 1% SMT 0805	H 4
R45	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	G 4
R46	A11368-33211	3.32K OHM .1W 1% CHIP 0805	G 4
R47	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	G 4
R48	A11368-33211	3.32K OHM .1W 1% CHIP 0805	<u> </u>
R49	A11368-76811	7.68KOHM 0.10W 1% SMT 0805	H 4
R50	······	30.1K, 0.10W 1% MF 0805	I 4
R51		13.7K 1/10W 1% SMD 0805 T/R	<u> </u>
R52		30.1K, 0.10W 1% MF 0805	Н 4
R53		13.7K 1/10W 1% SMD 0805 T/R	H 4
R54		10K 1/10W 1% SMD 0805 T/R	H 4
R55		4.99K 1/10W 1% SMD 0805 T/R	H 4
R56		10K 1/10W 1% SMD 0805 T/R	<u>H 4</u>
R57	A11368-10021	10K 1/10W 1% SMD 0805 T/R	I 4
		l	L
TROLLED	UNCONTROLLE ERWISE MARKED IN RE COPY, COPIES OF TH ASSOCIATED ELECTRON	ED INK BY CM AS A HESE DOCUMENTS	
	FERENCE ONLY.	TIONS ARE THE SIZE DWG NO.	RE
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HALL NOT	BE REPRODUCED, COP SIS FOR THE MANUFAC	IED. OR USED	^

REF DES	C. P. N.	DESCRIPTION	PARTS LIST		MAR	P LOC.
R58		10K 1/10W 1%	SMD 0805 T/	/R		H 4
R59		4.99K 1/10W 1				G 4
R60		10K 1/10W 1%				H 4
R61	A11368-10021	10K 1/10W 1%	and the second			H 4
R62	A11368-10001	100 OHM 1% 0E				нз
R63	A11368-10001	100 OHM 1% 08				нэ
R64	A11368-10031	100.KOHM .1W		15		H 1
R65		100.KOHM .1W				I 1
R66	A11368-10001			· · · · · · · · · · · · · · · · · · ·		H 2
R67		100 OHM 1% ØE				H 2
R68		100.KOHM .1W		15		G 1
R69	and the second	100.KOHM .1W				H 1
R70	A11368-10001	100 OHM 1% ØE				НЗ
R71	A11368-10001	100 OHM 1% 08				НЗ
R72		100 OHM 1% 00				H Z
R73		100 OHM 1% 08				H 2
R74		100 OHM 1% 00				F 4
	+	47.5 OHM .1W		7		B 4
R75		47.5 OHM .1W				B 4
R76		the second s	1% 0805 T/H			
R77	A11368-47R51					<u> </u>
R78		47.5 OHM .1W				
R79	A11368-47R51		water and the state of the stat			<u> </u>
R100	A11368-10021					<u> </u>
R101	A11368-10021		2MD 0005 1	<u>/ n</u>		<u> </u>
R102	<u> </u>	OPEN				<u> </u>
R103		OPEN				
R104		OPEN		<u></u>		<u>G3</u>
R105		10K 1/10W 1%		/ 11		<u> </u>
R106	A11371-1501	15 OHM . 1W 5				<u> </u>
R107		100 OHM 1% 0				<u>F3</u>
R110	and the second	13.7K 1/10W				<u> </u>
R111	and the second	13.7K 1/10W				<u>F3</u>
R112	and the second	13.7K 1/10W				<u> </u>
R113		3.32K DHM .1				<u> </u>
R114		13.7K 1/10W				<u>F3</u>
R115		3.32K OHM .1	and the second	and the second state of the se		<u>G 2</u>
R116		7.68KOHM 0.1		802		<u>G3</u>
R117	and the second	30.1K, 0.10W				<u> </u>
R118	and the second se	13.7K 1/10W				<u> </u>
R119		10K 1/10W 1%				<u> </u>
R120		4.99K 1/10W				<u> </u>
R121		10K 1/10W 1%	and the second state of th			<u> </u>
R122		10K 1/10W 1%				<u>G 2</u>
R123	and the second	100 OHM 1% 0				<u> </u>
R124	and the second	100 OHM 1% 0				G 1
R125	A11368-10031	100.KOHM .1W	1% CHIP 08	05		<u> </u>
R125		100.KOHM .1W	and the second se	and the second secon		<u> </u>
R127	A11368-10001	100 OHM 1% 0	805 RES T/R			<u>G 1</u>
<u></u>						
	UNCONTROLLI		7			
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	ERENCE ONLY.	TIONS ARE THE	SIZE DWG NO.			
OPERTY OF	CROWN INTERNATI	DNAL, INC. AND	A	126	693-4	
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		P	ARTS	LIST					
REF DES	C.P.N.	DESCRIPTION					1	MAP LOC.	
R128	and the second	100 OHM 1% 080	95 RE	S T/R				G 1	
R210		13.7K 1/10W 12			T/R			F 3	
R211		13.7K 1/10W 12						FЗ	
R212		13.7K 1/10W 15						F 2	
R213	the second se	3.32K OHM .1W						F 2	
R214	and a second	13.7K 1/10W 12		the second s				F 3	
R215		3.32K OHM .1W						F 2	
R216	and the second	7.68KOHM 0.10						F 3	
R217		30.1K, 0.10W						F 2	
R218	and an	13.7K 1/10W 12			T/R			F 2	
R219	and the second	10K 1/10W 1%						F 2	
R220		4.99K 1/10W 1						F 2	
R221		10K 1/10W 1%						F 2	
R222		10K 1/10W 1%						F 2	
R223		100 OHM 1% 08						F 1	
R224	and the second	100 OHM 1% 08						F 1	
R225		100.KOHM .1W			5			F 1	
R225	and the second sec	100.KOHM .1W						F 1	
R220		100 OHM 1% 08						F 1	
R228		100 OHM 1% 08						F 1	
		10K 1/10W 1%			B			F 3	
R300 R301		10K 1/10W 1%						F 3	
	10021	OPEN	עואוט					F 3	
R302		OPEN						 F 3	
R303	<u> </u>	OPEN						F 3	
R304	A11260 10021	and the second	CMD		`P			F 3	
R305	and the second state of th	10K 1/10W 1% 15 OHM .1W 5%						E 3	
R306	and the second s							E 3	
R307		100 OHM 1% 08			т/Р			E 3	
R310		13.7K 1/10W 1						E 3	
R311		13.7K 1/10W 1						E 2	
R312	and the second sec	13.7K 1/10W 1						E 2	
R313	and the second se	3.32K OHM .1W						<u> </u>	
R314		13.7K 1/10W 1							
R315		3.32K OHM .1W			the second s	,		E 2	
R316		7.68KOHM 0.10			692			<u>E3</u>	
R317		30.1K, 0.10W			T (D	·		E 2	
R318		13.7K 1/10W 1						E 2	
R319		10K 1/10W 1%						E 2	
R320		4.99K 1/10W 1						E 2	
R321		10K 1/10W 1%						<u> </u>	
R322		10K 1/10W 1%			′R			E 2	
R323		100 OHM 1% 08						<u>E 1</u>	
R324		100 OHM 1% 08						<u>E 1</u>	
R325	and the second se	100.KOHM .1W						<u>E 1</u>	
R326		100.KOHM .1W			95			E 1	
R327	A11368-10001	100 OHM 1% 08	05 F	ES T/R				E 1	
		L							
							-		
NCLUDING AS	COPY, COPIES OF T	ED INK BY CM AS A							
	NGS AND SPECIFIC	TIONS ARE THE	SIZE	DWG NO.					RE
ROPERTY OF	CROWN INTERNATIO	DNAL, INC. AND	A			12669	33-4	4	A
	E REPRODUCED, CON S FOR THE MANUFAN			I			T_		``
	S OR DEVICES WITH		SCAL	E NONE	PROJ NO.	MD404D0	I SHEET	12 OF 19	

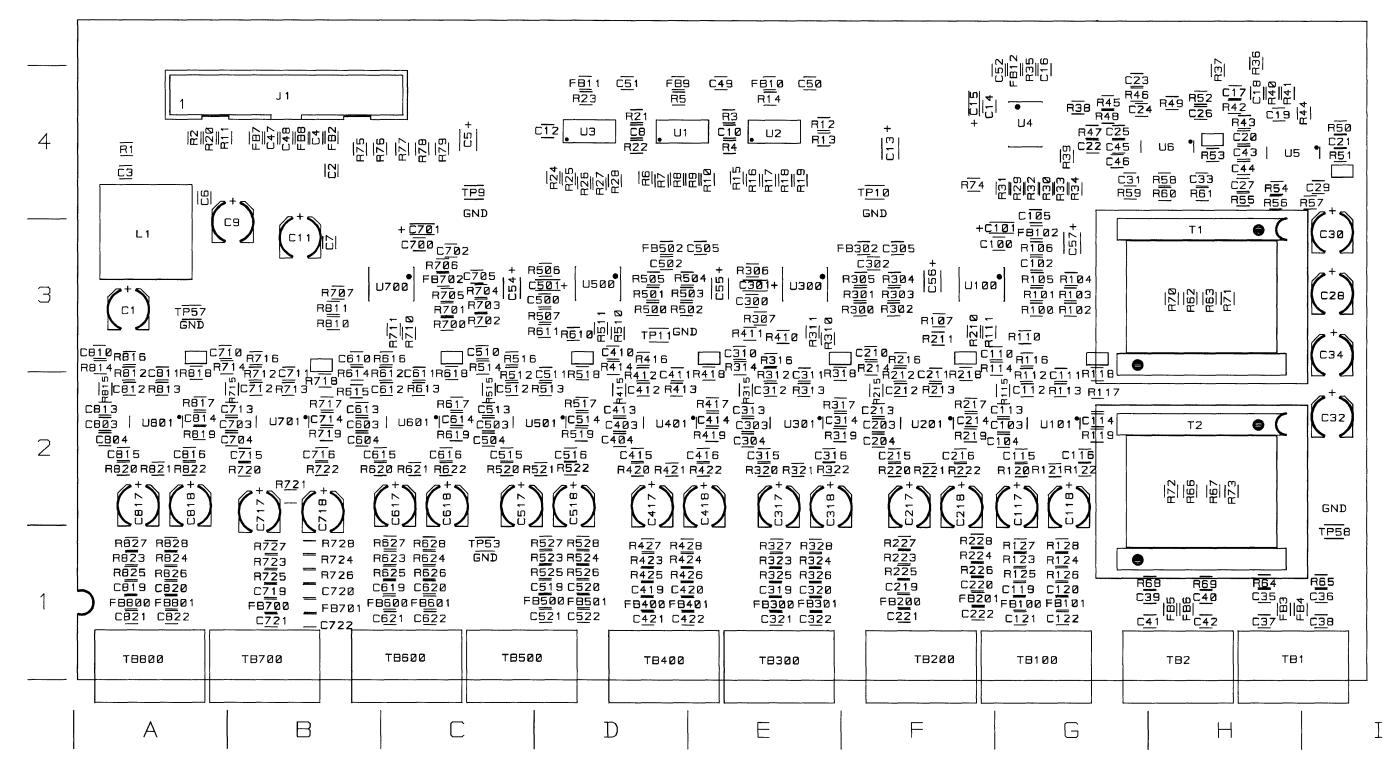
			PARTS LIST			
REF DES	C. P. N.	DESCRIPTION				MAP LOC.
R328	· · · · · · · · · · · · · · · · · · ·	100 OHM 1% 08				E 1
R410	A11368-13721	13.7K 1/10W 1	% SMD 0805	T/R		Е З
R411	A11368-13721	13.7K 1/10W 1	% SMD 0805	T/R		E 3
R412	A11368-13721	13.7K 1/10W 1	% SMD 0805	T/R		D 2
R413	A11368-33211	3.32K OHM .1W	1% CHIP 08	105		D 2
R414	A11368-13721	13.7K 1/10W 1	% SMD 0805	T/R		<u>D3</u>
R415	A11368-33211	3.32K OHM .1W	1% CHIP 08	105		D 2
R416	A11368-76811	7.68KOHM 0.10	W 1% SMT ØE	105		D 3
R417	A11368-30121	30.1K, 0.10W	1% MF 0805			E 2
R418	A11368-13721	13.7K 1/10W 1	% SMD 0805	T/R		E 2
R419	A11368-10021	10K 1/10W 1%	SMD 0805 T/	′R		E 2
R420	A11368-49911	4.99K 1/10W 1	% SMD 0805	T/R		D 2
R421	A11368-10021	10K 1/10W 1%	SMD 0805 T/	′R		D 2
R422	A11368-10021	10K 1/10W 1%	SMD 0805 T/	′R		E 2
R423	A11368-10001	100 OHM 1% 08	05 RES T/R			D 1
R424	A11368-10001	100 OHM 1% 08	05 RES T/R			D 1
R425	A11368-10031	100.KOHM .1W	1% CHIP 080	15		D 1
R425		100.KOHM .1W	the second of the second s			D 1
R427		100 OHM 1% 08				D 1
R428		100 OHM 1% 08				D 1
R500		10K 1/10W 1%		′R		DЗ
R501		10K 1/10W 1%				DЗ
R502		OPEN				DЗ
R503		OPEN				DЗ
R504		OPEN				DЗ
R505	A11368-10021	10K 1/10W 1%	SMD 0805 T	/R		D 3
R506	A11371-1501	15 OHM . 1W 5%				D 3
R507		100 OHM 1% 0E				D 3
R510		13.7K 1/10W 1		T/R		D 3
R511		13.7K 1/10W 1				D 3
R512		13.7K 1/10W 1				C 2
R513		3.32K OHM .1V				 D Z
R514		13.7K 1/10W 1				С 3
		3.32K OHM .1V		and the second		<u> </u>
R515		7.68KOHM 0.10				<u> </u>
R516		30.1K, 0.10W		100		D 2
R517				Т / Р		D 2
R518		13.7K 1/10W 1				D 2 D 2
R519	the second se	10K 1/10W 1%	tester and the second se			<u>D 2</u>
R520		4.99K 1/10W 1				L 2 D 2
R521		10K 1/10W 1%				
R522	and the second	10K 1/10W 1%		/ N		D 2 D 1
R523		100 OHM 1% 08				
R524		100 OHM 1% 00				D 1
R525		100.KOHM .1W				D 1
R526		100.KOHM .1W		<u>۵</u> ۵		D 1
R527		100 OHM 1% 00				D 1
R528	A11368-10001	100 OHM 1% 08	105 RES T/R	and the second		D 1
	l					
	<u> </u>	L		Ann		
NTROLLED (CLUDING AS	COPY, COPIES OF T SSOCIATED ELECTRO	ED INK BY CM AS A				
HESE DRAWI	ERENCE ONLY. NGS AND SPECIFIC/ CROWN INTERNATIO E REPRODUCED, COP	DNAL, INC. AND	SIZE DWG NO. A	126	693-4	4
	S FOR THE MANUFAL	TURE OR SALE	SCALE NONE	PROJ NO. MD404		13 OF 19
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REF DES	C.P.N.	PARTS LIST	MAP LOC.
R610		13.7K 1/10W 1% SMD 0805 T/R	D 3
R611	f	13.7K 1/10W 1% SMD 0805 T/R	D 3
R612		13.7K 1/10W 1% SMD 0805 T/R	C 2
R613		3.32K OHM .1W 1% CHIP 0805	C 2
R614		13.7K 1/10W 1% SMD 0805 T/R	B 2
R615		3.32K OHM .1W 1% CHIP 0805	B 2
R616		7.68KOHM Ø.10W 1% SMT Ø805	С 3
R617		30.1K, 0.10W 1% MF 0805	C 2
R618	1	13.7K 1/10W 1% SMD 0805 T/R	C 2
R619	+	10K 1/10W 1% SMD 0805 T/R	C 2
R620		4.99K 1/10W 1% SMD 0805 T/R	B 2
R621		10K 1/10W 1% SMD 0805 T/R	C 2
R622		10K 1/10W 1% SMD 0805 T/R	C 2
R623		100 OHM 1% 0805 RES T/R	C 1
R624		100 OHM 1% 0805 RES T/R	C 1
R625		100.KOHM .1W 1% CHIP 0805	C 1
R626		100.KOHM .1W 1% CHIP 0805	<u> </u>
R627		100 OHM 1% 0805 RES T/R	C 1
R628		100 OHM 1% 0805 RES T/R	C 1
R700		10K 1/10W 1% SMD 0805 T/R	СЗ
R701	and the second se	10K 1/10W 1% SMD 0805 T/R	С 3
R702		OPEN	С 3
R7Ø3		OPEN	С 3
R704		OPEN	С 3
R705	A11368-10021	10K 1/10W 1% SMD 0805 T/R	С 3
R706	A11371-1501	15 OHM .1W 5% 0805 T/R	С 3
R707		100 OHM 1% 0805 RES T/R	B 3
R710		13.7K 1/10W 1% SMD 0805 T/R	С 3
R711		13.7K 1/10W 1% SMD 0805 T/R	СЗ
R712		13.7K 1/10W 1% SMD 0805 T/R	82
R713		3.32K OHM .1W 1% CHIP 0805	B 2
R714		13.7K 1/10W 1% SMD 0805 T/R	A 3
R715		3.32K OHM .1W 1% CHIP 0805	B 2
R716	and the second se	7.68KOHM 0.10W 1% SMT 0805	В 3
R717		30.1K, 0.10W 1% MF 0805	82
R718		13.7K 1/10W 1% SMD 0805 T/R	B 2
R719	and the second s	10K 1/10W 1% SMD 0805 T/R	B 2
R720		4.99K 1/10W 1% SMD 0805 T/R	B 2
R721		10K 1/10W 1% SMD 0805 T/R	B 2
R722		10K 1/10W 1% SMD 0805 T/R	B 2
R723		100 OHM 1% 0805 RES T/R	B 1
R724		100 OHM 1% 0805 RES T/R	B 1
R725		100.KOHM .1W 1% CHIP 0805	B 1
R725		100.KOHM .1W 1% CHIP 0805	B 1
R727		100 OHM 1% 0805 RES T/R	B 1
R728	A11368-10001		B 1
R810	A11368-13721		83
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ALL NOT E	BE REPRODUCED, COP	IED, OR USED //	
	S FOR THE MANUFAC		SHEET 14 OF 19

REF DES	C. P. N.	PARTS LIST	MAP LOC.
R811	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	83
R812		13.7K 1/10W 1% SMD 0805 T/R	A 2
R813	A11368-33211	3.32K OHM .1W 1% CHIP 0805	A 2
R814	A11368-13721	13.7K 1/10W 1% SMD 0805 T/R	A 3
R815	A11368-33211	3.32K OHM .1W 1% CHIP 0805	A 2
R816	A11368-76811	7.68KOHM 0.10W 1% SMT 0805	A 3
R817		30.1K, 0.10W 1% MF 0805	A 2
R818		13.7K 1/10W 1% SMD 0805 T/R	A 2
R819	· · · · · · · · · · · · · · · · · · ·	10K 1/10W 1% SMD 0805 T/R	A 2
R820		4.99K 1/10W 1% SMD 0805 T/R	A 2
R821		10K 1/10W 1% SMD 0805 T/R	A 2
R822		10K 1/10W 1% SMD 0805 T/R	A 2
R823		100 OHM 1% 0805 RES T/R	A 1
R824		100 OHM 1% 0805 RES T/R	A 1
R825		100.KOHM .1W 1% CHIP 0805	A 1
R826		100.KOHM .1W 1% CHIP 0805	A 1
R827		100 OHM 1% 0805 RES T/R	A 1
RB2B		100 OHM 1% 0805 RES T/R	
T1	OPEN		A 1 H 3
T2	OPEN		
TB1	C 9676-5	3 POS, R/A 5MM HDR RND PIN	H 2
TB2	C 9676-5	3 POS, R/A 5MM HDR RND PIN	<u>H 1</u>
TB100	C 9676-5		
the second s		3 POS, R/A 5MM HDR RND PIN	<u> </u>
TB200	C 9676-5	3 POS, R/A 5MM HDR RND PIN	F 1
TB300	C 9676-5	3 POS, R/A 5MM HDR RND PIN	E 1
TB400	C 9676-5	3 POS, R/A 5MM HDR RND PIN	D 1
T8500	C 9676-5	3 POS, R/A 5MM HDR RND PIN	<u>C 1</u>
<u>TB600</u>	C 9676-5	3 POS, R/A 5MM HDR RND PIN	<u>B 1</u>
<u>TB700</u>	C 9676-5	3 POS, R/A 5MM HDR RND PIN	<u> </u>
T8800	C 9676-5	3 POS, R/A 5MM HDR RND PIN	A 1
TP9	127064-1	TEST POINT, SMT 1206	C 4
TP10	127064-1	TEST POINT, SMT 1206	F 4
TP11	127064-1	TEST POINT, SMT 1206	D 3
TP53	127064-1	TEST POINT, SMT 1206	<u> </u>
TP57	127064-1	TEST POINT, SMT 1206	A 3
TP58	127064-1	TEST POINT, SMT 1206	I 1
<u>U1</u>	126509-1	IC, 49FCT805 CLK DRIVER QSOP	D 4
U2	126509-1	IC, 49FCT805 CLK DRIVER QSOP	E 4
<u>U3</u>	126509-1	IC, 49FCT805 CLK DRIVER QSOP	D 4
U4	125631-1	DAC, 24BIT CS4390-K5 20 550P	G 4
U5	C 9012-3	OP AMP. QUAD LO NOISE ME33079D	H 4
U6	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	H 4
U100	125631-1	DAC, 24BIT CS4390-K5 20 SSOP	F 3
U101	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	G 2
U201	C 9012-3	OP AMP, QUAD LO NOISE MC33079D	F 2
U300	125631-1	DAC, 24BIT C54390-K5 20 550P	E 3
U3Ø1	C 9012-3	OP AMP. QUAD LO NOISE ME33079D	E 2
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			ARTS LIST			MAP LOC.	
	C.P.N.	DESCRIPTION OP AMP, QUAD L		020700		D 2	
U401	C 9012-3	DAC, 24BIT CS4				D 2	
U500	125631-1	OP AMP, QUAD L				D 2	
U501	C 9012-3						
U601	C 9012-3	OP AMP, QUAD L				C 3	
U700	125631-1	DAC, 24BIT CS4				B 2	
U701	C 9012-3	OP AMP, QUAD L	O NOISE MC	33079D		and the second	
U801	C 9012-3	OP AMP, QUAD L		33079D		A 2	
1	126692-4	PWB, USMB10 OL	JTPUT				
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PWA #126693-4 Component Map (Component Side)

Module Parts 8-45

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PWA #126744-3

SHARC Module PWB #126743-4 Schematic #126744-3 Rev. A

			PARTS LIST	·····		
REF DES		DESCRIPTION			······································	MAP LO
<u>C1</u>	A11427-104K2					<u> </u>
<u>C2</u>	A11427-104K2					A 3
<u>C3</u>	A11427-104K2		the second s		••••••••••••••••••••••••••••••••••••••	A 2
	A11427-104K2		P CAP 10% 0			<u> </u>
<u>C5</u>	A11427-104K2	.1UF 50V CHI		805 X7R		B 2
<u>C6</u>	A11427-104K2	.1UF 50V CHI				ВЗ
C7 C8	A11427-104K2	.1UF 50V CHI		the second s	····	<u> </u>
	A11427-104K2	.1UF 50V CHI	and the second design of the		·····	<u> </u>
<u>C9</u>	A11427-104K2	.1UF 50V CHI			····	C 2
<u>C14</u> C15	A11427-104K2					C 7
C16	A11427-104K2	.1UF 50V CHI		the second second second second second		C 5
C17	A11427-104K2	the second s	P CAP 10% 0			<u> </u>
C18	A11427-104K2	. 1UF 50V CHI				C 7
C19	A11427-104K2	. 1UF 50V CHI				D 5
C20	A11427-104K2					<u> </u>
C21		.1UF 50V CHI				D 6
C22		.1UF 50V CHI				D 5
C23	C10391-8 127074-1	10. UF 16V 20				D 3
C24		CAP, 220UF 6				E 2
C25		.1UF 50V CHI				D 7
C26	127074-1	.1UF 50V CHI				D 7
C27	127074-1	CAP, 220UF 6.	The second s			F 2
C28			3V 20% ALU			F 3
C28		.1UF 50V CHIR			····	E 7
C30	A11427-104K2	. 1UF 50V CHIR				D 7
C32	A11427-104K2	.1UF 50V CHIP				A 7
C33		.1UF 50V CHIP			·····	A 7
C34	A11427-104K2	. 1UF 50V CHIE			····	A 3
C35	A11427-104K2	. 1UF 50V CHIP	And the second se			A 2
C36		.1UF 50V CHIE				EB
C37	A11427-104K2	.1UF 50V CHIP				F 9
C38	A11427-104K2	.1UF 50V CHIP		and the second se		E 6
C39			CAP 10% 0			E 5
C40		10.UF 16V 20				D 9
C41	A11427-104K2	. 1UF 50V CHIP				D 5
C42	A11427-104K2	.1UF 50V CHIP				D 5
C43		.1UF 50V CHIP				<u> </u>
C44	A11427-104K2 A11427-104K2	.1UF 50V CHIR 1UF 50V CHIR	· · · · · · · · · · · · · · · · · · ·			C 3
C45	A11427-104K2	.1UF 50V CHIF				D 2
C45	A11427-104K2					D 1
C47	A11427-104K2					F 4
C48	A11427-104K2					<u> </u>
C49		.1UF 50V CHIF				D 9
C50		.1UF 50V CHIF				D 9
C51	A11427-104K2	.1UF 50V CHIF		the second s		E 9
C52	A11427-104K2	.1UF 50V CHIF				E 9
	THE FUTIL	<u></u>		JED VIH	······································	E 8
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		DEDMICCION		DODIN NO	1040400	SHEET 5 OF 17

NEF DES C.P. N. DESCRIPTION MMP DESA A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R D B CS5 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C B CS5 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C B CS5 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C B CS6 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C S CS6 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C S CS6 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R E 4 CS7 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R E 4 CS8 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R D 4 CS64 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C 4 CS64 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C 4 CS64 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C 5 CS64 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R C 5 CS64 A11427-184K2 :LUF S8V CHIP CAP 18X 0895 X7R			F	PARTS LIST		
C53 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 8 C55 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 8 C56 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 9 C57 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 9 C58 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 9 C59 C10391-8 18.UF 16V 28X TANTALUM SMT D 8 C50 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R E 4 C51 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R E 4 C52 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R D 4 C53 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 4 C54 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 4 C55 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 5 C66 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 5 C67 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R C 5 C70 C10391-8 18.UF 16V 28X TANTALUM SMT D 4 C74 A11427-104K2 IUF 56V CHIP CAP 18X 8895 X7R <th>REF DES</th> <th>C. P. N.</th> <th>DESCRIPTION</th> <th></th> <th></th> <th>MAP LOC.</th>	REF DES	C. P. N.	DESCRIPTION			MAP LOC.
CSS A11427-104K2 IUF SBV CHIP CAP 18X 0805 X7R C 8 CS6 A11427-104K2 IUF SBV CHIP CAP 18X 0805 X7R C 9 CS7 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R C 9 CS8 C1031-8 18.UF 15V 28X TATALUM SMT D 8 CS8 C1031-8 18.UF 15V 28X TATALUM SMT D 8 CS8 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R E 4 CS2 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R D 3 CS4 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R D 4 CS5 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R D 4 CS6 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R C 4 CS6 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R C 5 CS8 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R C 5 CS8 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R C 5 CS8 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R C 5 CS7 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R C 5 C71 A11427-104K2 IUF S6V CHIP CAP 18X 0805 X7R	C53	A11427-104K2				
CSS A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C B CS7 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C S CS8 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C S CS9 C10391-8 18.UF 16V 282 TANTALUM SMT D B CS0 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R E 5 CS1 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R E 4 CS3 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R D 3 CS4 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C 4 CS5 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C 4 CS6 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C 4 CS6 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C 5 CS6 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C 5 CS7 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C 5 C74 A11427-184K2 IUF 56V CHIP CAP 182, 8865 X7R C 5 C73 C18391-8 18.UF 16V 282 TANTALUM SMT D 5 C74 A11427-184K2 IUF 56V CHIP CAP 18	C54	A11427-104K2	.1UF 50V CHIP	CAP 10% 0805	X7R	DB
CS7 A11427-104K2 IUF S6V CHIP CAP 182, 8885 X7R C 9 CS8 A11427-104K2 IUF S6V CHIP CAP 182, 8855 X7R C 9 CS8 C1391-8 18.UF 16V 28X TANTALUM SMT D 8 CS8 A11427-104K2 IUF S6V CHIP CAP 182, 8855 X7R E 4 CS1 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R E 4 CS2 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R D 3 CS4 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R C 4 CS5 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R C 4 CS6 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R C 5 CS7 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R C 5 CS8 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R C 5 C71 A11427-104K2 IUF S6V CHIP CAP 182, 8865 X7R C 5 C72 C10391-8 18.UF 16V 28X TANTALUM SMT D 4 C73 C10391-8 18.UF 16V 28X TANTALUM SMT D 4 C74 A11427-104K2 IUF S6V CHIP CAP 18X 8865 X7R C 7 C73 C10391-8 18.UF 16V 28X TANTALUM SMT	C55	A11427-104K2	.1UF 50V CHIP	CAP 10% 0805	X7R	С 8
C58 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 9 C59 C18381-8 18.UF 16V 28X TANTALUM SMT D 8 C58 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R E 5 C51 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R E 4 C52 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R E 4 C53 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 4 C54 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 4 C55 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 4 C56 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 4 C56 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 5 C58 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 5 C70 C18381-8 18.UF 16V 28X TANTALUM SMT D 5 C71 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 7 C73 C18391-8 18.UF 16V 28X TANTALUM SMT D 5 C71 A11427-184K2 1.UF 58V CHIP CAP 182 8885 X7R C 7 C73 C18391-8 18.UF 16V 28X TANTALUM SMT	C56	A11427-104K2	.1UF 50V CHIP	CAP 10% 0805	X7R	СВ
C10391-8 10. UF 16V 20% TANTALUM SMT D 0 C60 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R E 5 C61 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R E 4 C62 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R D 3 C63 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R D 4 C66 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R C 4 C67 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R C 4 C68 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R C 5 C68 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R C 5 C78 C10391-8 10. UF 16V 20% TANTALUM SMT D 5 C71 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R C 7 C73 C10391-8 10. UF 16V 20% TANTALUM SMT D 4 C74 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R C 7 C73 C10391-8 10. UF 16V 20% TANTALUM SMT D 4 C74 A11427-104K2 1.UF 50V CHIP CAP 10% 0005 X7R G 9 C73 C10391-6 10. UF 16V 20% TANTALUM SMT D 4	C57	A11427-104K2	.1UF 50V CHIP	CAP 10% 0805	X7R	C 9
C680 A11427-184K2 1UF 50V CHIP CAP 10X 0805 X7R E 5 C51 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R E 4 C52 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R E 4 C53 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R D 3 C54 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 4 C55 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 4 C56 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 4 C56 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 5 C58 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 5 C74 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 5 C72 C10331-8 10.UF 16V 20X TANTALUM SMT D 5 C71 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 7 C73 C10331-8 10.UF 16V 20X TANTALUM SMT D 4 C74 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R C 7 C73 C10331-8 10.UF 16V 20X TANTALUM SMT D 4 C74 A11427-104K2 1UF 50V CHIP CAP 10X 0805 X7R	C58	A11427-104K2	.1UF 50V CHIP	CAP 10% 0805	X7R	С 9
CG1 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R E 4 CG2 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R D 3 CG4 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R D 4 CG5 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 4 CG6 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 4 CG6 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 4 CG6 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 5 CG8 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 5 C70 C10391-8 10.UF 16V 20X TANTALUM SMT D 5 C71 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 7 C73 C10391-8 10.UF 16V 20X TANTALUM SMT D 4 C74 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 7 C73 C10391-8 10.UF 16V 20X TANTALUM SMT D 4 C74 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 9 C75 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R C 9 C74 A11427-104K2 1UF 50V CHIP CAP 10X 0605 X7R	C59	C10391-B	10.UF 16V 20%	TANTALUM SMT		DB
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C96 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 4 C97 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C98 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CMAS A A 5 LUNCONTROLLED ESS 07HERWISE MARKED IN RED INK BY CM AS A A CUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY 1 2 C 7 4 4 - 2 ESE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DW	C94	A11427-104K2	.1UF 50V CHIP	CAP 10% 0805	X7R	A 3
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C97 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C98 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 UNCONTROLLED ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY, COPIES OF THESE DOCUMENTS LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY. 1 1 1 ESE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DWG NO. 1 1 2	C96	A11427-104K2	.1UF 50V CHIP	CAP 10% 0805	X7R	A 4
C98 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 UNCONTROLLED	C97			and the second	and the second	A 5
C99 A11427-104K2 .1UF 50V CHIP CAP 10% 0805 X7R A 5 UNCONTROLLED						A 5
UNCONTROLLED ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY. COPIES OF THESE DOCUMENTS LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE DNLY. ESE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DWG NO. 1 2 5 7 4 4 - 2		and the second				
LESS OTHERWISE MARKED IN RED INK BY CM AS A UTROLLED COPY, COPIES OF THESE DOCUMENTS LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY. IESE DRAWINGS AND SPECIFICATIONS ARE THE DUSCON DESCRIPTION UNICAN DESCRIPTION OF SPONDULY INC.		1				
ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY, COPIES OF THESE DOCUMENTS LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY. ESE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DWG NO. 1 2 5 7 4 4 - 2						
ESS OTHERWISE MARKED IN RED INK BY CM AS A ITROLLED COPY, COPIES OF THESE DOCUMENTS LUDING ASSOCIATED ELECTRONIC REPRODUCTIONS FOR REFERENCE ONLY. ESE DRAWINGS AND SPECIFICATIONS ARE THE SIZE DWG NO. 1 2 5 7 4 4 - 2		1				
175711 = 7	TROLLED C	RWISE MARKED IN RE COPY, COPIES OF TH SSOCIATED ELECTRON	ED INK BY CM AS A HESE DOCUMENTS			
IDPERTY OF CROWN INTERNATIONAL, INC. AND A 126744-3 IALL NOT BE REPRODUCED, COPIED, OR USED A 126744-3	OPERTY OF ALL NOT E	CROWN INTERNATIONE REPRODUCED, COP	NAL, INC. AND MED, OR USED		12674	4-3

REF DES	FPN	DESCRIPTION	MAP LOC.
CI00	C10391-8	10. UF 16V 20% TANTALUM SMT	A 5
C101	C10391-8	10. UF 16V 20% TANTALUM SMT	83
	C10391-8	10. UF 16V 20% TANTALUM SMT	F 3
C1-02 C103		.1UF 50V CHIP CAP 10% 0805 X7R	E 3
		.01 UF 50V 10% X7R MLC 0805	F 3
C104		.1UF 50V CHIP CAP 10% 0805 X7R	E 3
C105	and the second secon		E 3
C106		.1UF 50V CHIP CAP 10% 0805 X7R	E 1
C1-07		.1UF 50V CHIP CAP 10% 0805 X7R	B 7
C108		.1UF 50V CHIP CAP 10% 0805 X7R	
C109	C10391-8	10.UF 16V 20% TANTALUM SMT	<u>E 9</u>
C110	C10391-8	10.UF 16V 20% TANTALUM SMT	<u>A 6</u>
C111	C10391-8	10.UF 16V 20% TANTALUM SMT	A 9
C112	C10391-8	10.UF 16V 20% TANTALUM SMT	<u>C3</u>
C113	127074-1	CAP, 220UF 6.3V 20% ALUM SMT	F 4
C114	A11427-104K2	.1UF 50V CHIP CAP 10% 0805 X7R	A 6
D1	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	A 3
D2	125711-1	DIODE, SCHOTTKY 40V 1A DO214A	E 3
D3	126411-1	DIODE, SCHOTTKY 3A 40V SMT	E 2
D4	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	A 9
D5	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	E 8
D6	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	A 4
D7	C 9283-0	DIODE, MMBD4148/914 SOT-23 SMT	E 4
E1	126473-1	LED, GRN SMT 1206	£ 9
E2	126473-1	LED. GRN SMT 1206	E 9
E3	126473-1	LED, GRN SMT 1206	A 9
E4	126473-1	LED, GRN SMT 1206	A B
E5	126473-1	LED, GRN SMT 1206	A 3
E6	126473-1	LED, GRN SMT 1206	A 5
E7	126473-1	LED, GRN SMT 1206	A 4
E8	126473-1	LED, GRN SMT 1206	E 4
E9	126473-1	LED, GRN SMT 1206	E 4
FB1	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	C 5
FB2	125846-1	FERRITE BEAD, 600 OHM .5A 0805	D B
	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 7
FB3	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 3
FB4		FERRITE BEAD, 600 OHM . 5A 0805	F 9
F85	125846-1		EG
F86	125846-1		A 3
F87	125846-1		A 2
FB9	125846-1		D 2
FB10	125846-1	FERRITE BEAD, 600 OHM .5A 0805	
FB11	125846-1	FERRITE BEAD, 600 OHM .5A 0805	
FB12	125846-1	FERRITE BEAD, 600 OHM .5A 0805	
F813	125694-1	FERRITE BEAD, 2A SMT 4532	
FB14	125694-1	FERRITE BEAD, 2A SMT 4532	A 8
F815	125694-1	FERRITE BEAD, 2A SMT 4532	<u> </u>
FB16	125694-1	FERRITE BEAD, 2A SMT 4532	<u>A 3</u>
FB17	125846-1	FERRITE BEAD, 600 OHM .5A 0805	A 6
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NTROLLED (CLUDING AS	UNCONTROLLE RWISE MARKED IN RI COPY, COPIES OF TO SSOCIATED ELECTRO ERENCE ONLY.	ED INK BY CM AS A HESE DOCUMENTS	
ROPERTY OF	NGS AND SPECIFICA CROWN INTERNATIONSE REPRODUCED. COP	NAL, INC. AND Λ 126/44-	3

REF DES	CPN	PARTS LIST DESCRIPTION	MAP LOC
FB32	125846-1	FERRITE BEAD, 600 OHM . 5A 0805	F 4
J1	127183-1	HEADER, 26 PIN 0.1 CTRS	F 7
J2	127184-1	HEADER, 40PIN 0.1 CTRS	C 1
<u>J</u> 3	127680-1	HEADER, 50P 2ROW .050 CTR LONG	D 2
L1	126412-1	INDUCTOR, 3.3UH 6.4A SMT	E 3
L2	126412-1	INDUCTOR, 3.3UH 6.4A SMT	E 1
P1	C 8890-3	3POS . 156 CTR MTA HDR TIN	E 1
P2	126466-1	HEADER, 14PIN DUAL ROW Ø.1"	
P3	C 8666-7	10POS .100X.100 DBLROW HDR AU	F 5
Q1	C 7448-1	MMBT3904 CHIP NPN	A 3
Q2	126410-1	FET, N-CHNL 20A 30V DPAK	F 2
03	126410-1	FET, N-CHNL 20A 30V DPAK	E 2
R1 .		10K 1/10W 1% SMD 0805 T/R	E 9
R2		10K 1/10W 1% SMD 0805 T/R	E9
R3		10K 1/10W 1% SMD 0805 T/R	D 9
R4	4	10K 1/10W 1% SMD 0805 T/R	D 9
R5		10K 1/10W 1% SMD 0805 T/R	D 9
R6		10K 1/10W 1% SMD 0805 T/R	A 3
R7		10K 1/10W 1% SMD 0805 T/R	A 3
RB	+	10K 1/10W 1% SMD 0805 T/R	A 3
R9		1.KOHM .1W 1% CHIP 0805	E 8
R10	126195-1	TVS, 5.6/40A 0805 SMT	A 2
R12	A11368-10021	10K 1/10W 1% SMD 0805 T/R	
R13	A11368-10021	10K 1/10W 1% SMD 0805 T/R	88
R14	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	С 9
R15	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	C 9
R16	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	С 9
R1-7	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 8
R18	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 8
R19	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 8
R20	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	СВ
R21	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 8
R22	A11368-1 0R 01	10.0 OHM 0.10W 1% 0805 T/R	C 4
R23	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	<u> </u>
R24	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 4
R25	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 4
R26		47.5 OHM .1W 1% 0805 T/R	C 4
R27		47.5 OHM .1W 1% 0805 T/R	<u> </u>
R2B		47.5 OHM .1W 1% 0805 T/R	C 4
R29		47.5 OHM .1W 1% 0805 T/R	<u>C 4</u>
R30		10.0 OHM 0.10W 1% 0805 T/R	
R31		10.0 OHM 0.10W 1% 0805 T/R	
R32		47.5 OHM .1W 1% 0805 T/R	<u> </u>
R33		47.5 OHM .1W 1% 0805 T/R	<u> </u>
R34		47.5 OHM .1W 1% 0805 T/R	<u> </u>
R35		47.5 OHM .1W 1% 0805 T/R	<u> </u>
R36	A11368-4/H51	47.5 OHM .1W 1% 0805 T/R	<u> </u>
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NTROLLED (CLUDING AS	UNCONTROLLE RWISE MARKED IN R COPY, COPIES OF T SSOCIATED ELECTRO ERENCE ONLY.	D INK BY CM AS A HESE DOCUMENTS	
ROPERTY OF HALL NOT E	NGS AND SPECIFIC/ CROWN INTERNATION RE REPRODUCED. CON	INAL, INC. AND A 126	5744-3
	S FOR THE MANUFAC		

		PARTS LIST	MARIOC
	C.P.N.	DESCRIPTION	MAP LOC.
37		47.5 OHM .1W 1% 0805 T/R	
38		47.5 OHM .1W 1% 0805 T/R	
39		47.5 OHM .1W 1% 0805 T/R	D 3
740		22.1 OHM 0.1W 1% 0805 T/R	D 3
741		22.1 OHM 0.1W 1% 0805 T/R	<u>C 3</u>
742	and the second	47.5 OHM .1W 1% 0805 T/R	
743		47.5 OHM .1W 1% 0805 T/R	E 5
744	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	<u>C5</u>
R45		47.5 OHM .1W 1% 0805 T/R	85
746		22.1 OHM 0.1W 1% 0805 T/R	85
R47	A11368-22R11	22.1 OHM 0.1W 1% 0805 T/R	<u> </u>
748	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	B 5
749	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	A
R50	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	C 8
751	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 8
R52	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	<u>C 9</u>
R53	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 9
R54	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	e - C 9
R55	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 9
R56		47.5 OHM .1W 1% 0805 T/R	C 9
R57	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	C 8
R58	and the second sec	47.5 OHM .1W 1% 0805 T/R	C 8
R59		47.5 OHM .1W 1% 0805 T/R	89
R60		22.1 OHM 0.1W 1% 0805 T/R	С 9
R61		22.1 OHM 0.1W 1% 0805 T/R	C 9
R62	and the second s	47.5 OHM .1W 1% 0805 T/R	C 9
R63		47.5 OHM .1W 1% 0805 T/R	AB
R64		47.5 OHM .1W 1% 0805 T/R	E 9
R65		22.1 OHM 0.1W 1% 0805 T/R	DB
R66		22.1 OHM 0.1W 1% 0805 T/R	СВ
R67		47.5 OHM .1W 1% 0805 T/R	СВ
R68		47.5 OHM .1W 1% 0805 T/R	<u> </u>
		47.5 OHM .1W 1% 0805 T/R	D B
R69		10K 1/10W 1% SMD 0805 T/R	88
R70	the second s	10K 1/10W 1% SMD 0805 T/R	84
R71			B 4
R72	and the second se	10K 1/10W 1% SMD 0805 T/R	B 4
R73	and the second sec	10K 1/10W 1% SMD 0805 T/R	₽.5
R74		10K 1/10W 1% SMD 0805 T/R	D 5
R75		10K 1/10W 1% SMD 0805 T/R	
R76		10K 1/10W 1% SMD 0805 T/R	
R77	A11368-47851	47.5 OHM .1W 1% 0805 T/R	E 5
R78			
R79		OPEN	88
R80	A11368-47R51		89
RB1	A11368-47R51		86
R82	A11368-47R51		D 3
R83		OPEN	СВ
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TROLLED	COPY, COPIES OF T SSOCIATED ELECTRO	ED INK BY CM AS A	
	ERENCE ONLY. INGS AND SPECIFIC	ATIONS ARE THE SIZE DWG NO.	_ R
OPERTY OF	CROWN INTERNATIO	SNAL, INC. AND Λ 126744-	-3 (")
	BE REPRODUCED, CON LS FOR THE MANUFAN	TURE OR SALE	
	US OR DEVICES WITH		ET 9 OF 17

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R84		OPEN	E 5
R85	A11368-10021	10K 1/10W 1% SMD 0805 T/R	E 5
R86	A11368-10021	10K 1/10W 1% SMD 0805 T/R	E 4
R87	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 4
R88	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 4
R89		10K 1/10W 1% SMD 0805 T/R	AB
R90		10K 1/10W 1% SMD 0805 T/R	A 8
R91	,	1.KOHM .1W 1% CHIP 0805	E 7
R92			
		226 OHM 0.1W 1% 0805 T/R 226 OHM 0.1W 1% 0805 T/R	<u>E 9</u>
R93			E 9
R94		226 OHM 0.1W 1% 0805 T/R	A B
R95		10K 1/10W 1% SMD 0805 T/R	E 5
R96		10K 1/10W 1% SMD 0805 T/R	E 5
R97		10K 1/10W 1% SMD 0805 T/R	D 5
R98	A11368-10021	10K 1/10W 1% SMD 0805 T/R	D 5
R103	A11368-22R11	22.1 OHM 0.1W 1% 0805 T/R	DB
R104	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	DB
R105	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	DB
R106	A11368-22R11	22.1 OHM 0.1W 1% 0805 T/R	89
R107	and the second se	47.5 OHM .1W 1% 0805 T/R	B 9
R108		47.5 OHM .1W 1% 0805 T/R	<u></u>
R109	A11368-22R11	22.1 OHM 0.1W 1% 0805 T/R	85
R110		47.5 OHM .1W 1% 0805 T/R	B5
R111			
		47.5 OHM .1W 1% 0805 T/R	<u> </u>
R112	A11368-22R11	22.1 OHM 0.1W 1% 0805 T/R	D 3
R113		47.5 OHM .1W 1% 0805 T/R	D 3
R114	and the second se	47.5 OHM .1W 1% 0805 T/R	D 3
R115		47.5 OHM .1W 1% 0805 T/R	A 7
R116	A11368-10011	1.KOHM .1W 1% CHIP 0805	A 3
R117	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 3
R118	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 2
R119	A11368-10021	10K 1/10W 1% SMD 0805 T/R	A 3
R120	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	A 7
R121		47.5 OHM .1W 1% 0805 T/R	АБ
R122	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	АБ
R123	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	A 7
R124		47.5 OHM .1W 1% 0805 T/R	A 7
R125		47.5 OHM .1W 1% 0805 T/R	A 7
R125		47.5 OHM .1W 1% 0805 T/R	A 7
R127			
		47.5 OHM .1W 1% 0805 T/R	A 7
		47.5 OHM .1W 1% 0805 T/R	A 7
R129		47.5 OHM .1W 1% 0805 T/R	A 7
R130	A11368-47851	47.5 OHM .1W 1% 0805 T/R	C 4
R131		47.5 OHM .1W 1% 0805 T/R	D 5
R132	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	D 5
R133	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 5
R134	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 5
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NTROLLED C	UNCONTROLLE WISE MARKED IN RE OPY, COPIES OF TH SOCIATED ELECTRON	D INK BY CM AS A Ese documents	
	RENCE ONLY.		T
OPERTY OF	NGS AND SPECIFICA CROWN INTERNATIO	NAL, INC. AND A 17	6744-3
ALL NOT BE	E REPRODUCED, COP		
THE BASIS	5 FOR THE MANUFAC	TURE OR SALE. DUT PERMISSION, SCALE NONE PROJ NO. MD4	404D0 SHEET 10 OF 17

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R135	A11368-22601	226 OHM 0.1W 1% 0805 T/R	A 9
R136	A11368-22601	226 OHM 0.1W 1% 0805 T/R	A 5
R137	A11368-22601	226 OHM 0.1W 1% 0805 T/R	A 4
R138	A11368-22601	226 OHM 0.1W 1% 0805 T/R	E 4
R139	A11368-22601	226 OHM Ø.1W 1% 0805 T/R	E 4
R140	A11368-10021	10K 1/10W 1% 5MD 0805 T/R	E 6
R141	A11368-10021	10K 1/10W 1% SMD 0805 T/R	А З
R142	A11368-22601	226 OHM 0.1W 1% 0805 T/R	A 3
R143	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	C 4
R144		47.5 OHM .1W 1% 0805 T/R	87
R145		47.5 OHM .1W 1% 0805 T/R	C 6
R146		47.5 OHM .1W 1% 0805 T/R	86
R147	A11368-47R51		C 6
R148		47.5 OHM .1W 1% 0805 T/R	B 7
R149		47.5 OHM .1W 1% 0805 T/R	F 8
R150		47.5 OHM .1W 1% 0805 T/R	E B
R151		33.2 OHM 1% 0805 RES T/R	EB
R152			C 4
R153	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	E 6
	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	F 5
R154	A11368-47R51		E 5
R155			E 5
R156	A11368-47R51		£ 5
R157	A11368-47R51		A 7
R158		10K 1/10W 1% SMD 0805 T/R	D 4
R159		10K 1/10W 1% SMD 0805 T/R	B 9
R160		10K 1/10W 1% SMD 0805 T/R	A 3
R161		1.KOHM .1W 1% CHIP 0805	A 7
R162		10K 1/10W 1% SMD 0805 T/R	A 7
R163		10K 1/10W 1% SMD 0805 T/R	F 9
R164		47.5 OHM .1W 1% 0805 T/R	F 9
R165		47.5 OHM .1W 1% 0805 T/R	
R166	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	F 9
R167		47.5 OHM .1W 1% 0805 T/R	F 9
R168		47.5 OHM .1W 1% 0805 T/R	F 9
R169	A11368-47R51		F 9
R170	A11368-47R51		
R171	A11368-33R21		FB
R172	A11368-47R51		÷ ÷ 9
R173		47.5 OHM .1W 1% 0805 T/R	E 5
R174		47.5 OHM .1W 1% 0805 T/R	E 5
R175		47.5 OHM .1W 1% 0805 T/R	E 5
R176	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	E 6
R177	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	-E-5
R178	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	F 9
R179	A11368-10011	1.KOHM .1W 1% CHIP 0805	DЗ
R180	A11368-10021	10K 1/10W 1% SMD 0805 T/R	СВ
R181	A11368-10021	10K 1/10W 1% SMD 0805 T/R	89
	1		
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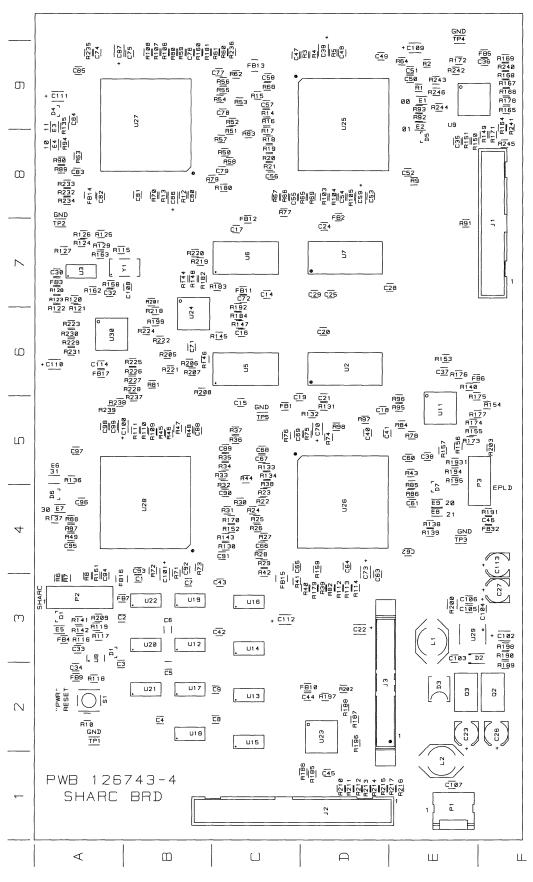
REF DES	C.P.N.	DESCRIPTION	PARTS LIST	· · · · · · · · · · · · · · · · · · ·	MAP LOC.	
R182		47.5 OHM .1W	1% 0805 T/R	·····	B 7	
R183		47.5 OHM .1W			C 7	
R184	A11368-47R51	47.5 OHM .1.W	1% 0805 T/R		C 6	
R185	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		D 1	
R186	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		D 1	
R187	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		D 2	
R188	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		D 2	
R189	A11368-47R51	47.5 DHM .1W	1% 0805 T/R		F 2	
R190	A11368-47R51	47.5 OHM .1W	1% 0805 T/R	·	F 3	
R191	A11368-10021	10K 1/10W 1%	SMD 0805 T/R		F 4	
R192	the second s	47.5 OHM .1W	in the second		<u> </u>	
R193	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		<u> </u>	
R194	A11368-47851	47.5 OHM .1W	1% 0805 T/R		<u> </u>	
R195		47.5 OHM .1W			E 5	
R196		47.5 OHM .1W			<u>D 2</u>	
R197		10K 1/10W 1%	and the second		D 2	
R198	1	10K 1/10W 1%			<u>F3</u>	
R199	ter and the second s	47.5 OHM .1W			86	
R200	126414-1	RES. 0150HM 1		I T/R	<u>E 3</u>	
R201		47.5 OHM .1W			<u>B7</u>	
R202		47.5 OHM .1W			D 2	
R203		1.KOHM .1W 1%	The second s		F 5	
R205	a contraction of the second	47.5 OHM .1W			<u> </u>	
R206		47.5 OHM .1W			<u> </u>	
R207		47.5 OHM .1W			86	
R208		10K 1/10W 1%			B 6 A 3	
R209		47.5 OHM .1W	The second s		D 1	
R210 R211	· · · · · · · · · · · · · · · · · · ·	47.5 OHM .1W		·····	D 1	
R212		47.5 OHM .1W	······································	······································	D 1	
R213		47.5 OHM .1W	······································		D 1	
R214		47.5 OHM .1W			D 1	
R215	· · · · · · · · · · · · · · · · · · ·	47.5 OHM .1W			D 1	
R216		47.5 OHM .1W	Contraction of the second s		E 1	
R217		47.5 OHM .1W			E 1	
R218	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		В 6	
R219		47.5 OHM .1W	the second s		В 7	
R220	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		B 7	
R221	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		86	
R222		47.5 OHM .1W			86	
R223	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		A 6	
R224	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		B 6	
R225	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		86	
R226	A11368-47R51	47.5 OHM .1W	1% 0805 T/R		86	
R227	A11368-47R51	47.5 OHM .1W			B 6	
R228	A11368-47R51		And the second		86	
R229		10K 1/10W 1%		and the second se	A 6	
R230	A11368-10021	10K 1/10W 1%	SMD 0805 T/R		A 6	
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		PARTS LIST	
REF DES	and the second se	DESCRIPTION	MAP LOC.
R231		10K 1/10W 1% SMD 0805 T/R	A 6
R232		10K 1/10W 1% SMD 0805 T/R	A 8
R233		10K 1/10W 1% SMD 0805 T/R	<u> </u>
R234	and the second	10K 1/10W 1% SMD 0805 T/R	AB
R235		10K 1/10W 1% SMD 0805 T/R	A 9
R236		10K 1/10W 1% SMD 0805 T/R	<u>C 9</u>
R237		47.5 OHM .1W 1% 0805 T/R	<u> </u>
R238	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	A 5
R239	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	A 5
R240		OPEN	F 9
R241			F 9
R242		47.5 OHM .1W 1% 0805 T/R	E 9
R243	A11368-47R51	47.5 OHM .1W 1% 0805 T/R	E 9 E 9
R244	A11368-47R51		F B
R245	A11368-47R51	47.5 OHM .1W 1% 0805 T/R 47.5 OHM .1W 1% 0805 T/R	E 9
R246	A11368-47R51	SWITCH, SPST 6MM SMT	A 2
S1 TP1	127059-1	TEST POINT, SMT 1206	A 2
TP1 TP2	127064-1	TEST POINT, SMT 1206	A 7
TP3	127064-1	TEST POINT, SMT 1206	E 4
TP4	127064-1	TEST POINT, SMT 1206	E 10
TP5	127064-1	TEST POINT, SMT 1206	C 5
U2	126357-1	IC, SDRAM 1MX16 3.3V TSOP	D 6
U3	126360-1	IC, 49FCT3805 CLK DRV 3.3V QSOP	A 7
U5	126358-1	IC, SRAM 64KX16 15N5 3.3V T50P	C 6
U6	126358-1	IC, SRAM 64KX16 15NS 3.3V TSOP	C 7
U7	126357-1	IC, SDRAM 1MX16 3.3V TSOP	D 7
U8	126377-1	IC. DS1834A DUAL ECONORESET SMT	A 3
U9	127073-1	IC, M4LV-64/32-15VC 3.3V TOFP	E 9
U11	127073-1	IC, M4LV-64/32-15VC 3.3V TOFP	E 5
U12	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	В 3
U13	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	C 2
U14	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	СЗ
U15	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	C 2
U16	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	СЗ
U17	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	B 2
U18	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	B 2
U19	126361-1	IC, 74LCX573 3.3V OCT LAT OSOP	83
U2Ø	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	83
U21	126361-1	IC, 74LCX573 3.3V OCT LAT QSOP	B 2
U22	126361-1	IC. 74LCX573 3.3V OCT LAT QSOP	<u>B3</u>
U23	127073-1	IC, M4LV-64/32-15VC 3.3V TQFP	D 2
U24	127072-1	IC, M4LV-64/32-10VC 3.3V TQFP	86
U25	126359-1	IC, 21065 SHARC DSP 3.3V	D9
U26	126359-1	IC, 21065 SHARC DSP 3.3V	D 4
U27	126359-1	IC, 21065 SHARC DSP 3.3V	<u>B 9</u>
U28	126359-1	IC, 21065 SHARC DSP 3.3V	84
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			PARTS LIST		T	
	5 C.P.N.	DESCRIPTION			MAI	P LOC.
U29	126363-1	IC, MAX767 PW				E 3
U30	127073-1	IC, M4LV-64/32		TQFP		A 6
Y1 .	127.083-1	OSC, 30.00MHZ	3.3V SMT			B 7
	126743-4	PWB, USMB10 D	SP SHARC	· · · · · · · · · · · · · · · · · · ·		
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		ITHOUT PERMISSION.	SCALE NONE	PROJ NO. MD404D0	SHEET 14	05 47

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130447-1 Rev. A



PWA #126744-3 Component Map (Component Side)

PWA #126747-3

Front Display Module PWB #126746-3 Schematic #126745 Rev. A

	5 C.P.N.		
		DESCRIPTION 0.1 MF 50V 10% 0805	MAP LOC.
C2		0.1 MF 50V 10% 0805	
			<u>M 1</u>
<u>C3</u>	A11427-104K2	0.1 MF 50V 10% 0805	I 1
C4	127074-1	CAP, 220UF 6.3V 20% ALUM SMT	I 1
<u>C5</u>	A11427-104K2	0.1 MF 50V 10% 0805	J 1
<u>C6</u>	· · · · · · · · · · · · · · · · · · ·	OPEN	<u>F 2</u>
<u>C7</u>		OPEN	<u>H 1</u>
<u>C8</u>		OPEN	<u> </u>
<u>C9</u>		OPEN	<u>H 1</u>
<u>C10</u>		OPEN	<u>H 2</u>
<u>C11</u>	127074-1	CAP, 220UF 6.3V 20% ALUM SMT	<u> </u>
C12	127074-1	CAP, 220UF 6.3V 20% ALUM SMT	<u> </u>
D1		OPEN	<u>H 1</u>
<u>E1</u>	126118-1	LED, TRIPLE 7-SEG COM-K 3MM LD	<u> </u>
E2	127085-1	LED, BLUE T-1 0.25" FORM T/R	K 2
E3	127087-1	LED, GRN T-1 0.25" FORM T/R	N 1
E4	127087-1	LED, GRN T-1 0.25" FORM T/R	N 1
E5	127087-1	LED, GRN T-1 0.25" FORM T/R	N 1
E6	127087-1	LED, GRN T-1 0.25" FORM T/R	N 1
E7	127087-1	LED, GRN T-1 0.25" FORM T/R	N 1
E8	127087-1	LED, GRN T-1 0.25" FORM T/R	N 1
E9	127087-1	LED, GRN T-1 0.25" FORM T/R	0 1
E10	127087-1	LED, GRN T-1 0.25" FORM T/R	0 1
E11	127087-1	LED, GRN T-1 0.25" FORM T/R	0 1
E12	127087-1	LED, GRN T-1 0.25" FORM T/R	0 1
E13	127087-1	LED, GRN T-1 0.25" FORM T/R	P 1
E14	127087-1	LED, GRN T-1 0.25" FORM T/R	P 1
E15	127087-1	LED, GRN T-1 0.25" FORM T/R	P 1
E16	127087-1	LED, GRN T-1 0.25" FORM T/R	P 1
E17	127087-1	LED, GRN T-1 0.25" FORM T/R	P 1
E18	127087-1	LED, GRN T-1 0.25" FORM T/R	· P 1
E19	127088-1	LED, YEL T-1 0.25 FORM T/R	
E20	127087-1	LED, GRN T-1 0.25 FORM T/R	<u> </u>
			<u> </u>
FB1	125846-1	FERRITE BEAD, 0.5A, 6000HMS	
FB2	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 1
FB3	125846-1	FERRITE BEAD, Ø.5A, 6000HMS	<u> </u>
FB5		OPEN	F 2
FB6		OPEN	<u> </u>
J1	C10571-5	18 PIN HDR PICOFLEX TIN	I 1
L1	127060-1	INDUCTOR, 220UH 290MA SMT	J 1
P5		OPEN	H 2
R1	126195-1	TVS, 5,6V/40A SMD 0805	C 1
R2	126195-1	TVS, 5.6V/40A SMD 0805	D 1
R3	126195-1	TVS, 5.6V/40A SMD 0805	D 1
R4	A11368-10021	10K 1/10W 1% CHIP 0805	C 2
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R5		10K 1/10W 1% CHIP 0805	D 2
R6	A11368-10021	10K 1/10W 1% CHIP 0805	E 2
R7		1.5K 0.10W 1% CHIP 0805	C 1
R8	A11368-15011	1.5K 0.10W 1% CHIP 0805	M 1
R10		OPEN	H 1
R11		OPEN	F 2
R12		OPEN	H 2
R13		OPEN	H 1
R14		OPEN	H 2
R15		OPEN	I 2
R16	A11368-47R51	47.5 OHM 0.10W 1% CHIP	L 2
5 W1	126782-1	SWITCH, PB SPST SERIES 320	C 1
5W2	126782-1	SWITCH, PB SPST SERIES 320	D 1
5 W3	126782-1	SWITCH, PB SPST SERIES 320	E 1
U1	126265-1	IC MC14489	C 2
U2	126265-1	IC MC14489	M 1
UЗ		OPEN	Н 1
U4		OPEN	F 1
Y1		OPEN	H 1
1	126746-3	PWB, USMB10 FRONT DISPLAY	
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1					• ●	X(??) X(??) X(??) X(??)	▼(8) ▼(3)		X (∰) X (∰) X (∰)		
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PWA #126747-3 Component Map (Component Side)

Module Parts 8-63

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PWA #128045-1

System Controller Module PWB #126346-5 Schematic #126323 Rev. A

21 22 23 24 25 26	A11427-104K2 A11427-104K2	DESCRIPTION 0.1 MF 50V 10% 0805	MAP LOC. B 2
22 23 24 25 26	A11427-104K2 A11427-104K2		
23 24 25 26	A11427-104K2	0.1 MF 50V 10% 0805	A 2
:4 :5 :6		0.1 MF 50V 10% 0805	A 2
5 6	I A11427-104K2I	0.1 MF 50V 10% 0805	A 2
26 27		0.1 MF 50V 10% 0805	B 2
		0.1 MF 50V 10% 0805	DЗ
		0.1 MF 50V 10% 0805	E 2
28	C10391-8	10 UF 16V 20% TANT	C 4
29		0.1 MF 50V 10% 0805	D 4
210		0.1 MF 50V 10% 0805	D 5
C11		0.1 MF 50V 10% 0805	D 5
C12		0.1 MF 50V 10% 0805	D 5
C13		0.1 MF 50V 10% 0805	B 4
C14	C10391-8	10 UF 16V 20% TANT	J 2
C15		0.1 MF 50V 10% 0805	K 1
C16		0.1 MF 50V 10% 0805	I 2
C17		0.1 MF 50V 10% 0805	F 1
C18	and the state of t	0.1 MF 50V 10% 0805	F 2
C19	C10391-8	10 UF 16V 20% TANT	F 2
C20		0.1 MF 50V 10% 0805	F 2
C21		0.001UF 50V 5% NPO MLC 0805 T/	E 2
C22	127075-1	CAP, 100UF/16V, 20%, LOW ESR, ALUM SMT	E 2
 C23		0.001UF 50V 5% NPO MLC 0805 T/	E 2
 C24	127075-1	CAP, 100UF/16V, 20%, LOW ESR, ALUM SMT	F 1
C25	126251-1	1 FARAD 5.5V	E 5
 C26	and the second se	6.8PF 50V 1% CHIP 0805	G 3
C27		0.1 MF 50V 10% 0805	G 3
C28		0.1 MF 50V 10% 0805	 J 3
C29	127075-1	CAP, 100UF/16V, 20%, LOW ESR, ALUM SMT	J 3
C30		0.1 MF 50V 10% 0805	В 4
C31		0.1 MF 50V 10% 0805	H 4
C32		0.1 MF 50V 10% 0805	H 4
C33		0.1 MF 50V 10% 0805	Н 5
C34	C10391-8	10 UF 16V 20% TANT	F 3
C35	······································	0.1 MF 50V 10% 0805	Е 3
C36		0.1 MF 50V 10% 0805	F 3
C37		0.1 MF 50V 10% 0805	G 4
C38		0.1 MF 50V 10% 0805	E 5
C39		0.1 MF 50V 10% 0805	G 4
C40	A11369-220J2		G 4
C41		22PF 50V 5% NPO/COG CHIP 0805	G 4
C42	A11427-104K2		F 3
 C43	A11427-104K2	0.1 MF 50V 10% 0805	E 4
C44	A11427-104K2	0.1 MF 50V 10% 0805	E 4
C45	A11369-220J2		G 4
C46		22PF 50V 5% NPO/COG CHIP 0805	 G 4
C40	A11427-104K2		H 4
	ATT 427 104K2		
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REF DE	S C.P.N.	DESCRIPTION	MAP LOC.
C48		0.001UF 50V 5% NPO MLC 0805 T/	НЗ
C49		0.1 MF 50V 10% 0805	C 1
C50		0.1 MF 50V 10% 0805	В 1
C51	A11427-104K2	0.1 MF 50V 10% 0805	C 2
C52	A11427-104K2	0.1 MF 50V 10% 0805	СЗ
C53	A11427-104K2	0.1 MF 50V 10% 0805	C 2
C54	A11427-104K2	0.1 MF 50V 10% 0805	C 2
C55		0.1 MF 50V 10% 0805	C 1
C56	C10391-8	10 UF 16V 20% TANT	C 2
C57	A11427-104K2	0.1 MF 50V 10% 0805	A 2
C59	A11427-104K2	0.1 MF 50V 10% 0805	D 5
D1	C10144-1	DIODE, ZENER 15V SOT-23	C 1
D2	C10144-1	DIODE, ZENER 15V SOT-23	C 1
DЭ	C10144-1	DIODE, ZENER 15V SOT-23	В 1
D4	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	B 1
E 1	126473-1	LED, SMT 1205 GREEN	F 3
E2	126473-1	LED, SMT 1206 GREEN	G 4
E3	126473-1	LED, SMT 1205 GREEN	G 4
F 1	125721-1	PTC, 1A 60V 0.7 OHM	B 4
F2	125721-1	PTC, 1A 60V 0.7 OHM	B 3
F3	125721-1	PTC, 1A 50V 0.7 OHM	B 1
FB1	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 2
FB2	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 2
FB3	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 2
FB4	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 2
F85	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 2
FB6	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 3
FB7	125846-1	FERRITE BEAD, 0.5A, 6000HMS	В 3
FB8	125846-1	FERRITE BEAD, 0.5A, 6000HMS	В 3
FB9	125846-1	FERRITE BEAD, 0.5A, 6000HMS	В 3
FB10	125846-1	FERRITE BEAD, 0.5A, 6000HMS	В 3
FB11	125846-1	FERRITE BEAD, 0.5A, 6000HMS	ВЗ
FB12	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 4
FB13	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 4
FB14	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 4
FB15	125846-1	FERRITE BEAD, 0.5A, 6000HMS	
FB16	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 4
FB17	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 4
FB18	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 4
FB19	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 5
FB20	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B5
FB20	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B5
FB21	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B5
FB23	125846-1		
FB24	125694-1	FERRITE BEAD, 0.5A, 6000HMS FERRITE BEAD, 2A SMT 2A	B 5
FB25	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 4
FB26	125846-1		A 4
020		FERRITE BEAD, 0.5A, 6000HMS	A 4
<u></u>			

	C	ROV	NN II	NTERNATIO	JNAL INC	
THESE DRAWINGS AND SPECIFICATIONS ARE THE	1718 WEST	MISHAWA	KA ROAD	ELKHART, INDIANA 48517	PHONE (219) 294-	-8000
PROPERTY OF CROWN INTERNATIONAL, INC. AND SHALL NOT BE REPRODUCED, COPIED, OR USED	DRAWN	JFL	7/20/99	DWG. ND.	SHEET 5 OF 12	REV
AS THE BASIS FOR THE MANUFACTURE OR SALE of Apparatus or devices without permission.	PROJ.	MI	404D0	1280	45-1	B
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REF DES	C. P. N.	PARTS LIST	MAP LOC.
FB27	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 4
FB28	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 4
FB29	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 5
FB30	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 5
FB31	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 5
FB32	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 5
F833	125846-1	FERRITE BEAD, 0.5A, 6000HMS	J 2
FB34	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 1
FB35	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 2
FB36	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 3
FB37	125846-1	FERRITE BEAD, 0.5A, 6000HMS	JЗ
F838	125694-1	FERRITE BEAD, 2A SMT 2A	B 4
FB39	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 3
FB40	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 4
FB41	125846-1	FERRITE BEAD, 0.5A, 6000HMS	нз
FB42	125846-1	FERRITE BEAD, Ø.5A, 6000HMS	B 1
FB43	125846-1	FERRITE BEAD, Ø.5A, 6000HMS	B 1
FB44	125846-1	FERRITE BEAD, 0.5A, 6000HMS	C 2
FB45	125846-1	FERRITE BEAD, 0.5A, 6000HMS	C Z
FB46	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 1
FB47	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 1
FB48	125694-1	FERRITE BEAD, 2A SMT 2A	E 2
FB49	125694-1	FERRITE BEAD, 2A SMT 2A	A 1
FB50	125846-1	FERRITE BEAD, 0.5A, 6000HMS	СЗ
FB51	TBD FB 0805	TBD, FERRITE BEAD - 0805	B 2
HWI	C 6419-3	SHUNT, .025" SQ POST 2 POS	<u> </u>
J 1	C 8173-4	CON 9PIN SUB-D RA 478 MNT	A Z
J2	125676-1	CON , RJ-45 DUAL STACKED, RT A	A 1
K1	126289-1	RELAY, DPDT 12V 1A	B 2
LZ	125715-1	INDUCTOR, 53UH 1.87A	E 1
MODE	C 7746-8	3 PIN .1 SGLROW HDR GOLD .230	G 4
P1	127184-1	HEADER, 40PIN 0.1 CTRS	I 1
P2	C 8666-7	10 PIN . 100X. 100 HDR. GOLD	F 1
P3	127068-1	HEADER, 6POS, 0.156" TIN	D 1
P4	127143-1	HEADER, 3POS, 0.156" TIN	D 2
			D 1
P5	127068-1	HEADER, 6POS, 0.156" TIN 18 PIN HDR PICOFLEX TIN	K 2
P6	C10571-5	CON 37 PIN SUB-D RA 318 MNT	A 3
<u>P7</u>	C 9654-2		
P9	126312-1	HEADER, 6 PIN DUAL ROW	<u> </u>
01	C 744B-1	MMBT3904 CHIP NPN	<u>B 4</u>
02	<u>C 7448-1</u>	MMBT3904 CHIP NPN	<u>B 4</u>
03	<u>C 7448-1</u>	MMBT3904 CHIP NPN	
<u>Q4</u>	C 744B-1	MMBT3904 CHIP NPN	B 5
Q5	C 7448-1	MMBT3904 CHIP NPN	B 5
Q6	C 744B-1	MMBT3904 CHIP NPN	B 5
Q7	C 744B-1	MMBT3904 CHIP NPN	B 5
QB	C 744B-1	MMBT3904 CHIP NPN	<u>B 5</u>
			
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		CROWN INTERNATION	
E DRAWINGS	AND SPECIFICATIONS AF WN INTERNATIONAL, INC PRODUCED, COPIED, OR R THE MANUFACTURE OR DEVICES WITHOUT PERM	THE THE DEALWAY LEL 7/20/00 DWG, ND.	PHONE (219) 294- SHEET 6 OF 12
PERLY OF CRO	WWN INTERNATIONAL, INC	DRAWN JEL 7/20/99 DWG. NO.	JULCI U UF 12

			MAP LOC.
REF DES	C 7448-1	DESCRIPTION MMBT3904 CHIP NPN	B 4
		MMBT3904 CHIP NPN	B 4
<u>010</u>	C 7448-1		B 4
011	C 744B-1	MMBT3904 CHIP NPN	
012	C 744B-1	MMBT3904 CHIP NPN	85
<u>Q13</u>	C 744B-1	MMBT3904 CHIP NPN	B 5
014	C 7448-1	MMBT3904 CHIP NPN	<u>B 5</u>
015	C 7448-1	MMBT3904 CHIP NPN	B 5
Q16	C 7448-1	MMBT3904 CHIP NPN	85
Q17	C 7448-1	MMBT3904 CHIP NPN	<u>F3</u>
Q18	C 7448-1	MMBT3904 CHIP NPN	D 3
Q19	C 744B-1	MMBT3904 CHIP NPN	D 3
020	C 7448-1	MMBT3904 CHIP NPN	D 3
021	C 7448-1	MMBT3904 CHIP NPN	СЗ
022	C 7448-1	MMBT3904 CHIP NPN	СЗ
Q23	C 7448-1	MMBT3904 CHIP NPN	С 3
Q24	C 7448-1	MMBT3904 CHIP NPN	С 3
Q25	C 7448-1	MMBT3904 CHIP NPN	СЗ
R1	A11368-10021	10K 1/10W 1% CHIP 0805	DЗ
R2	A11368-10011	1K 0.10W 1% CHIP 0805	FЗ
R3	126254-1	TV5, 12V @ 40A	В 3
R4	126254-1	TV5, 12V e 40A	В 3
R5	126254-1	TVS, 12V @ 40A	B 3
R6	126254-1	TV5, 12V • 4ØA	В 3
R7	126254-1	TVS, 12V e 40A	ВЗ
RB	126254-1	TVS, 12V e 4ØA	B 4
R9	126254-1	TVS, 12V • 40A	B 4
R10	126254-1	TVS, 12V @ 40A	84
R11			D 4
R12		10K 1/10W 1% CHIP 0805 10K 1/10W 1% CHIP 0805	D 4
			D 4
R13		10K 1/10W 1% CHIP 0805	
R14		10K 1/10W 1% CHIP 0805	D 3
R15		10K 1/10W 1% CHIP 0805	
R16	the second se	10K 1/10W 1% CHIP 0805	
R17		10K 1/10W 1% CHIP 0805	<u>C 4</u>
R18	••••••••••••••••••••••••••••••••••••••	10K 1/10W 1% CHIP 0805	СЗ
R19		10K 1/10W 1% CHIP 0805	<u>C 4</u>
R20	· · · · · · · · · · · · · · · · · · ·	10K 1/10W 1% CHIP 0805	<u>C4</u>
R21		10K 1/10W 1% CHIP 0805	C 4
R22		10K 1/10W 1% CHIP 0805	C 4
R23	+	10K 1/10W 1% CHIP 0805	C 4
R24	A11368-10021	10K 1/10W 1% CHIP 0805	C 4
R25	A11368-10021	10K 1/10W 1% CHIP 0805	C 4
R26	A11368-10021	10K 1/10W 1% CHIP 0805	C 5
R27	A11368-10013	1 K .25W 1% 1210 SMT T/R	B 4
R28	A11368-10013	1 K .25W 1% 1210 SMT T/R	B 4
R29	A11368-10013	1 K .25W 1% 1210 SMT T/R	B 4
R30	A11368-10013	1 K .25W 1% 1210 SMT T/R	B 4
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		CROWN INTERNATION	
SE DRAWINGS	AND SPECIFICATIONS AR	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN JFL 7/20/99 DWG. NO.	PHONE (215) 294-8 SHEET 7 OF 12
	WN INTERNATIONAL, INC PRODUCED, COPIED, OR (R THE MANUFACTURE OR : DEVICES WITHOUT PERM		

MAP LOC.
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PHONE (219) 294-B
SHEET B OF 12

	1	PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
R78	A11368-10021	10K 1/10W 1% CHIP 0805	J Z
R79	A11368-10021	10K 1/10W 1% CHIP 0805	J 2
R80	وستتهيد كالبدار والمترجعة البرسانة المتحدين فيراحكم فبالمتحد المتحد	10K 1/10W 1% CHIP 0805	K 1
R81	A11368-10021	10K 1/10W 1% CHIP 0805	J 1
R82		10K 1/10W 1% CHIP 0805	J 1
R83		47.5 OHM 0.10W 1% CHIP	F 1
R84	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 2
R85	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 2
R86	A11368-10021	10K 1/10W 1% CHIP 0805	F 1
R87	126254-1	TVS, 12V @ 4ØA	В 4
R88	A11368-10011	1K 0.10W 1% CHIP 0805	G 4
R89		1K 0.10W 1% CHIP 0805	G 4
R90		47.5 OHM 0.10W 1% CHIP	B 1
R91		47.5 OHM 0.10W 1% CHIP	B 1
R92	126195-1	TVS, 5.6V/40A SMD 0805	
R93		10K 1/10W 1% CHIP 0805	<u>B 1</u>
R94		47.5 OHM Ø.10W 1% CHIP	<u>G 4</u>
R95		47.5 OHM 0.10W 1% CHIP	F 5
R96			G 3
R97		47.5 OHM 0.10W 1% CHIP	G 3
		47.5 OHM 0.10W 1% CHIP	<u> </u>
R98		47.5 OHM 0.10W 1% CHIP	G 3
R99		47.5 OHM 0.10W 1% CHIP	<u> </u>
R100	A11368-47R51		<u> </u>
R101	A11368-47R51		G Z
R102	A11368-47R51	47.5 OHM 0.10W 1% CHIP	G 2
R103		47.5 OHM 0.10W 1% CHIP	G 4
R104	A11371-1051	1M 0.1W 5% CHIP 0805	G 4
R105	126195-1	TVS, 5.6V/40A SMD 0805	B 1
R106	A11368-10011	1K 0.10W 1% CHIP 0805	G 4
R107	A11368-47R51		JZ
R108	A11368-47R51	47.5 OHM 0.10W 1% CHIP	J 2
R109	A11368-47R51	47.5 OHM 0.10W 1% CHIP	J Z
R110	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 4
R111	A11368-47R51		E 4
R112	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 4
R113	the second s	47.5 OHM 0.10W 1% CHIP	E 4
R114		1K 0.10W 1% CHIP 0805	E 4
R115		49.9K 0.1W 1% CHIP 0805	E 4
R116	A11368-49921		
R117	A11368-49921	49.9K 0.1W 1% CHIP 0805	<u>E 4</u>
R118	A11368-49921	49.9K 0.1W 1% CHIP 0805	<u>E 4</u>
R119	A11368-49921	49.9K 0.1W 1% CHIP 0805	<u>E 4</u>
R120	A11368-49921		<u> </u>
R120			<u>E 4</u>
	A11368-49921	49.9K 0.1W 1% CHIP 0805	<u>E 4</u>
R122	A11368-49921	49.9K 0.1W 1% CHIP 0805	<u>E 4</u>
R123	A11368-49921	49.9K 0.1W 1% CHIP 0805	A 3
R124	A11368-49921	49.9K 0.1W 1% CHIP 0805	A 3
			1
		CROWN INTERNATION	AL INC.
E DRAWINGS A	ND SPECIFICATIONS ARE	THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 48517 F	HONE (219) 294-80
ERTY OF CROW	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR L THE MANUFACTURE OR S DEVICES WITHOUT PERMI	AND DRAWN JFL 7/20/99 DWG. NO. SH	IEET 9 OF 12
	LINE MANUEACTURE OR 9	ALE SSION. PROJ. MD404D0 128045	-1 (

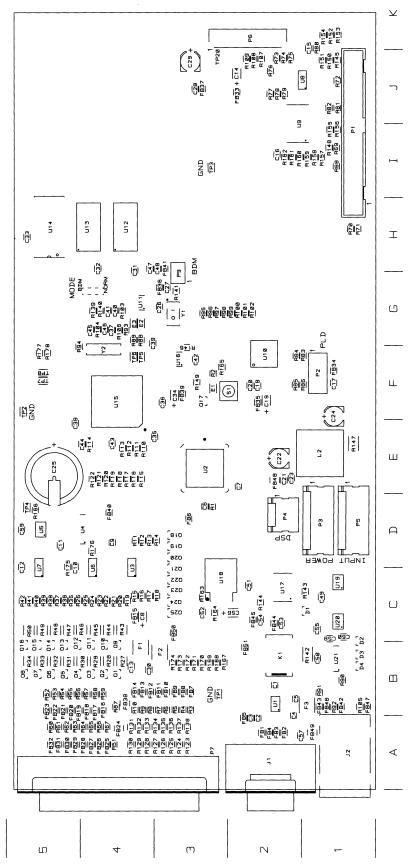
F DES	C. P. N.	DESCRIPTION	MAP LOC
125		49.9K 0.1W 1% CHIP 0805	A 3
126		49.9K Ø.1W 1% CHIP Ø805	A 3
27		49.9K Ø.1W 1% CHIP Ø805	A 3
128	A11368-49921		A 4
29		49.9K Ø.1W 1% CHIP Ø805	A 4
130	A11368-49921	49.9K Ø.1W 1% CHIP 0805	A 4
131	126254-1	TV5, 12V @ 40A	A 4
132	126254-1	TV5, 12V @ 40A	A 4
133	126254-1	TVS, 12V @ 40A	A 4
134	126254-1	TVS, 12V @ 40A	A 3
135	126254-1	TVS, 12V @ 40A	А З
136	126254-1	TVS, 12V @ 40A	A 3
137	126254-1	TVS, 12V @ 40A	A 3
138	126254-1	TVS, 12V @ 40A	А Э
139		10K 1/10W 1% CHIP 0805	G 4
140		10K 1/10W 1% CHIP 0805	G 4
141	A11368-10021	10K 1/10W 1% CHIP 0805	G 3
142	A11371-3314	330 OHM 0.50W 5% 1210	B 1
143	A11368-10011	1K 0.10W 1% CHIP 0805	C 1
144	A11368-10021	10K 1/10W 1% CHIP 0805	C 2
145	A11368-47R51	47.5 OHM 0.10W 1% CHIP	J 1
146	A11368-10021	10K 1/10W 1% CHIP 0805	F 3
147		OPEN	E 1
148	A11368-10021	10K 1/10W 1% CHIP 0805	I 1
149	A11368-10021	10K 1/10W 1% CHIP 0805	F 3
150	A11368-47R51	47.5 OHM 0.10W 1% CHIP	J 1
151	A11368-47R51	47.5 OHM 0.10W 1% CHIP	J 1
152	A11368-47R51	47.5 OHM 0.10W 1% CHIP	K 1
153	A11368-47R51	47.5 OHM 0.10W 1% CHIP	К 1
154	A11368-47R51	47.5 OHM 0.10W 1% CHIP	К 1
155	A11368-47R51	47.5 OHM 0.10W 1% CHIP	I 1
156	A11368-47R51	47.5 OHM 0.10W 1% CHIP	I 1
157	A11368-47R51	47.5 OHM 0.10W 1% CHIP	I 1
158	A11368-47R51	47.5 OHM 0.10W 1% CHIP	I 1
159	A11368-47R51	47.5 OHM 0.10W 1% CHIP	I 1
160	A11368-47R51	47.5 OHM 0.10W 1% CHIP	I 2
161	A11368-47R51		I 2
162		47.5 OHM 0.10W 1% CHIP	I 2
163	the second s	2.80K OHM 0.10W 1% CHIP 0805	C 3
164		392. OHM 1/10W 1% CHIP 0805	<u> </u>
165	126195-1	TVS, 5.6V/40A SMD 0805	F3
166	A11368-47R51		D 5
167		10K 1/10W 1% CHIP 0805	<u> </u>
168	A11368-10021		B 3
169		10K 1/10W 1% CHIP 0805	B 3
170	the second s	10K 1/10W 1% CHIP 0805	в з
171	A11368-10021	10K 1/10W 1% CHIP 0805	в 3
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	C	ROV	VN II	NTERNATI	ONAL 3	INC.
	1718 WEST	MISHAWA	KA ROAD	ELKHART. INDIANA 4651	7 PHONE (21	9) 294-8000
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SHALL NOT BE REPRODUCED, COPIED, OR USED As the basis for the Manufacture or sale of Apparatus or Devices Without Permission.	PROJ.	MI	0404D0	1280	145-1	B
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		PARTS LIST	MAP LOC.
	5 C.P.N.	10K 1/10W 1% CHIP 0805	ВЗ
R172		10K 1/10W 1% CHIP 0805	вз
R173		10K 1/10W 1% CHIP 0805	83
R174		10K 1/10W 1% CHIP 0805	D 5
R175		10K 1/10W 1% CHIP 0805	D 4
R176		1K 0.10W 1% CHIP 0805	F 5
R177		1K 0.10W 1% CHIP 0805	F 5
R178	127059-1	SWITCH, SPST 6 MM SMT	F 2
<u>51</u> TP1	127059-1	TEST POINT, SMT 1206	ВЗ
TP2	127064-1	TEST POINT, SMT 1206	F 5
	127064-1	TEST POINT, SMT 1206	IЗ
TP3	127064-1	TEST POINT, SMT 1206	D 5
TP4 TP5	127064-1	TEST POINT, SMT 1206	F 4
TP6	127064-1	TEST POINT, SMT 1206	F 4
TP7	127064-1	TEST POINT, SMT 1206	F 5
	127064-1	TEST POINT, SMT 1206	F 5
<u>TP8</u>	126117-1	IC,RS232 TX/RX ADM202E TSSOP	B 2
<u>U1</u>	125693-1	PC16522	E 3
<u>U2</u>	100473-1	LATCH, BBIT 74HC573 TSSOP	D 4
<u>U3</u>		74ACT138D 1 OF 8 DECODER SOIC	D 4
<u>U4</u>	101805-1	74HCØ4ADT HEX INVERTER TSSOP	D 5
<u>U5</u>	101804-1	LATCH, BBIT 74HC573 TSSOP	D 4
<u>U6</u>	100473-1	LATCH, BBIT 74HC573 TSSOP	D 5
	100473-1	LATCH, BBIT 74HC573 T550P	J 1
UB	100473-1	IC, 74HCT245 OCTAL XCVR SDIC	J 2
<u>U9</u>	127062-1	IC MACH 2115P-15VC	F 2
<u>U10</u>	126290-1	IC, REAL TIME CLK DS1302Z SOIC	G 4
<u>U11</u>	126107-1	FLASH MEM, 29C040A, 512KXB, 15	Н 4
U12	126244-1	FLASH MEM, 29C040A, 512KX8, 15	н 4
U13	125751-1	SRAM, 128K X B 15NS LOW PWR SO	Н5
U14	126106-1	MCU, ME6BHEB12A4 POFP	F 4
U15		IC, DS1B34A5	F 3
U16	126377-1	OPTP ISOLATOR HPC4200	C 2
U17	125690-1	IC, LM3175 ADJ VOLT REG TO-263	СЗ
	127142-1	IC, 74HC32 QUAD 2 IN OR TSSOP	C 1
U19	126037-1	74HC04ADT HEX INVERTER TSSOP	C 1
U20	C10484-1	7407 HEX BUFFER SOIC	B 1
U21 Y1	127678-1	CRYSTAL, 32.768KHZ	G 3
	127679-1	CRYSTAL, 14.7456 MHZ	F 4
Y2 1	126346-5	PWB, USMB10 SYSTEM CINTROLLER	
<u> </u>	120340 5		
 			
			

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	1718 WEST	MISHAWA	KA ROAD	ELKHART, INDI	ANA 48517	PHONE	(219)	294-6	كمركندي أجريه بنصبي
THESE DRAWINGS AND SPECIFICARSOND AND THE PROPERTY OF CROWN INTERNATIONAL, INC. AND SHALL NOT BE REPRODUCED, COPIED, OF USED	DRAWN	JFL	7/20/99	DWG. ND.		SHEET	11 DF	12	REV
SHALL NOT BE REPRODUCED. COPIED. OH DSED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.	PROJ.	мі	404D0	7 1	2804	· 5 - 1			<u>(B)</u>
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PWA #128045-1 Component Map (Component Side)

PWA #128047-3

SHARC Module PWB #126743-4 Schematic #126742 Rev. C

		PARTS LIST	·
REF DES	C.P.N. DESC	RIPTION	MAP LOC.
C1	A11427-104K2 0.1	MF 50V 10% 0805	В 3
C2	A11427-104K2 0.1	MF 50V 10% 0805	АЗ
С3	A11427-104K2 0.1		A 2
<u>C4</u>	A11427-104K2 0.1	MF 50V 10% 0805	B 2
C5	A11427-104K2 0.1	MF 50V 10% 0805	B 2
C6	A11427-104K2 0.1	MF 50V 10% 0805	В 3
C7	A11427-104K2 0.1	MF 50V 10% 0805	В З
CB	A11427-104K2 0.1	MF 50V 10% 0805	C 2
C9	A11427-104K2 0.1	MF 50V 10% 0805	C 2
C14	A11427-104K2 0.1	MF 50V 10% 0805	C 7
C15	A11427-104K2 0.1	MF 50V 10% 0805	C 5
C16	A11427-104K2 0.1	MF 50V 10% 0805	C 6
C17	A11427-104K2 0.1	MF 50V 10% 0805	C 7
C18	A11427-104K2 0.1	MF 50V 10% 0805	D 5
C19	A11427-104K2 0.1	MF 50V 10% 0805	C 5
C20	A11427-104K2 0.1	MF 50V 10% 0805	D 6
C21	A11427-104K2 0.1	MF 50V 10% 0805	D 5
C22	C10391-8 10 L	F 16V 20% TANT	DЗ
C23		220UF/6.3V, 20%, LOW ESR, ALUM SMT	E 2
C24	A11427-104K2 0.1		D 7
C25	A11427-104K2 0.1	The second se	D 7
C26		220UF/6.3V, 20%, LOW ESR, ALUM SMT	F 2
C27	and the second sec	220UF/6.3V, 20%, LOW ESR, ALUM SMT	F 3
C28	A11427-104K2 0.1		E 7
C29	A11427-104K2 0.1		D 7
C30	A11427-104K2 0.1		A 7
C32	A11427-104K2 0.1		A 7
C33	A11427-104K2 0.1		A 3
C34	A11427-104K2 0.1		A 2
C35	A11427-104K2 0.1		E 8
C36	A11427-104K2 0.1		F 9
C37	A11427-104K2 0.1		E 6
C38	A11427-104K2 0.1		E 5
C39		F 16V 20% TANT	<u> </u>
C40		MF 50V 10% 0805	D_5
C41	A11427-104K2 0.1		D_5
C42	A11427-104K2 0.1		<u>5</u>
C43	A11427-104K2 0.1		
C44	A11427-104K2 0.1		D 2
C45			
		MF 50V 10% 0805	D 1
C46	A11427-104K2 0.1	MF 50V 10% 0805	F 4
C47	A11427-104K2 0.1	MF 50V 10% 0805	<u> </u>
C48	A11427-104K2 0.1	MF 50V 10% 0805	D 9
C49	A11427-104K2 0.1	MF 50V 10% 0805	D9
<u>C50</u>	A11427-104K2 0.1	MF 50V 10% 0805	E 9
<u>C51</u>	A11427-104K2 0.1	MF 50V 10% 0805	E 9
C52	A11427-104K2 0.1	MF 50V 10% 0805	EB
		CROWN INTERNATION	
	ND OPENIE CATIONS ARE THE	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 P	HONE (219) 294-80
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REF DE	S C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
253		0.1 MF 50V 10% 0805	D B
C54		0.1 MF 50V 10% 0805	
C55		0.1 MF 50V 10% 0805	С в
C56		0.1 MF 50V 10% 0805	СВ
		0.1 MF 50V 10% 0805	<u>C </u>
C57			<u>C </u>
<u>C58</u>		0.1 MF 50V 10% 0805 10 UF 16V 20% TANT	<u>D</u> B
C59	C10391-B		E 5
<u>C60</u>		0.1 MF 50V 10% 0805	E E4
<u>C61</u>		0.1 MF 50V 10% 0805 0.1 MF 50V 10% 0805	E 4
C62			E 7
C63	A11427-104K2		D3
<u>C64</u>		0.1 MF 50V 10% 0805	
<u>C65</u>	A11427-104K2		
<u>C66</u>		0.1 MF 50V 10% 0805	
C67	A11427-104K2		<u> </u>
C68		0.1 MF 50V 10% 0805	
C69		0.1 MF 50V 10% 0805	
C70	C10391-8	10 UF 16V 20% TANT	<u> </u>
C71		0.1 MF 50V 10% 0805	<u> </u>
C72		0.1 MF 50V 10% 0805	
C73	C10391-8	10 UF 16V 20% TANT	D 4
C74	· · · · ·	0.1 MF 50V 10% 0805	<u>A 9</u>
C75		0.1 MF 50V 10% 0805	89
C76	A11427-104K2		<u> </u>
C77	A11427-1Ø4K2	0.1 MF 50V 10% 0805	С 9
C78	A11427-104K2	0.1 MF 50V 10% 0805	C 9
Ċ79	A11427-104K2	0.1 MF 50V 10% 0805	СВ
C80	A11427-104K2	0.1 MF 50V 10% 0805	B B
C81	A11427-104K2	0.1 MF 50V 10% 0805	B B
C82	A11427-104K2	0.1 MF 50V 10% 0805	A B
C83	A11427-104K2	0.1 MF 50V 10% 0805	A 8
C84	A11427-104K2	0.1 MF 50V 10% 0805	A 9
C85	A11427-104K2	0.1 MF 50V 10% 0805	A 9
C86	С10391-В	10 UF 16V 20% TANT	ВВ
C87	C10391-8	10 UF 16V 20% TANT	A 9
C88	A11427-104K2	0.1 MF 50V 10% 0805	B 5
C89	A11427-104K2	0.1 MF 50V 10% 0805	C 5
C90		0.1 MF 50V 10% 0805	C 4
C91	A11427-104K2	0.1 MF 50V 10% 0805	C 4
C92	A11427-104K2		B 4
C93	A11427-104K2		B 4
C94	A11427-104K2		A 3
C95	A11427-104K2		A 4
C96	A11427-104K2		A 4
C97	A11427-104K2	0.1 MF 50V 10% 0805	A 5
C98	A11427-104K2		A 5
C99	A11427-104K2	0.1 MF 50V 10% 0805	A 5
235	10TKZ		<u> </u>
			······
	······		·······
			<u> </u>
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EF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
C100	C10391-8	10 UF 16V 20% TANT	A 5
C101	C10391-8	10 UF 16V 20% TANT	ВЗ
C102	C10391-8	10 UF 16V 20% TANT	F 3
C103		0.1 MF 50V 10% 0805	E 3
C104		0.01MF 50V 10% CHIP 0805	F 3
C105	A11427-104K2		E 3
C106	and the second	0.1 MF 50V 10% 0805	Е 3
C107	A11427-104K2		E 1
C108		0.1 MF 50V 10% 0805	B 7
C109	C10391-B	10 UF 16V 20% TANT	E 9
C110	C10391-8	10 UF 16V 20% TANT	A B
C111	C10391-8	10 UF 16V 20% TANT	A 9
C112	C10391-8	10 UF 16V 20% TANT	СЗ
C113	127074-1	CAP, 220UF/6.3V, 20%, LOW ESR, ALUM SMT	F 4
C114	A11427-104K2		A 6
D1	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	A 3
D2	125711-1	DIODE, SCHOTTKEY 40V 1A DO214A	E 3
D2 D3	126411-1	DIODE, MBRS340T3	E 2
D5	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	A 9
D5	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	EB
D5 D6	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	A 4
D7	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	E 4
E1	126473-1	LED, SMT 1206 GREEN	E 9
E2	126473-1	LED, SMT 1206 GREEN	E 9
E3	126473-1	LED, SMT 1206 GREEN	A 9
E4	126473-1	LED, SMT 1206 GREEN	AB
<u>54</u> E5	126473-1	LED, SMT 1206 GREEN	A 3
	126473-1	LED, SMT 1206 GREEN	A 5
E6 E7	126473-1	LED, SMT 1206 GREEN	A 4
	the second se	LED, SMT 1206 GREEN	E 4
E8	126473-1	LED, SMT 1206 GREEN	E 4
E9	126473-1		C 5
FB1	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D B
FB2	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 7
FB3	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 3
FB4	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 9
FB5	125846-1	FERRITE BEAD, 0.5A, 6000HMS	
FB6	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB7	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB9	125846-1	FERRITE BEAD, 0.5A, 6000HMS	
FB10	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 2
FB11	125846-1	FERRITE BEAD, 0.5A, 6000HMS	
FB12	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB13	125694-1	FERRITE BEAD, 2A SMT 2A	<u> </u>
FB14	125694-1	FERRITE BEAD, 2A SMT 2A	<u> </u>
FB15	125694-1	FERRITE BEAD, 2A SMT 2A	<u>С 3</u>
FB16	125694-1	FERRITE BEAD, 2A SMT 2A	<u> </u>
FB17	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 6
			
		CROWN INTERNATIO	PHONE (218) 294-0

		PARTS LIST	
REF DE	5 C.P.N.	DESCRIPTION	MAP LOC.
FB32	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 4
J1	127183-1	HEADER, 26PIN Ø.1 CTRS	F 7
J2	127184-1	HEADER, 40PIN 0.1 CTRS	C 1
JЗ	127680-1	HEADER, 50P 2ROW .050 CTR LON	NG D 2
L1	126412-1	INDUCTOR, 3.3 UH SMD	E 3
L2	126412-1	INDUCTOR, 3.3 UH SMD	E 1
P1	C 8890-3	HEADER, 3POS, Ø.156" TIN	E 1
P2	126466-1	HEADER, 14 PIN DUAL ROW	A 3
P3	C 8666-7	10 PIN .100X.100 HDR. GOLD	F 5
Q1	C 7448-1	MMBT3904 CHIP NPN	А З
02	126410-1	PWR FET. MTD20N03HDL	F 2
Q3	126410-1	PWR FET, MTD20N03HDL	E 2
R1	A11368-10021	10K 1/10W 1% CHIP 0805	E 9
R2	A11368-10021	10K 1/10W 1% CHIP 0805	E 9
R3		10K 1/10W 1% CHIP 0805	D 9
R4		10K 1/10W 1% CHIP 0805	D
R5		10K 1/10W 1% CHIP 0805	<u></u>
R6		10K 1/10W 1% CHIP 0805	<u></u> A 3
R7		10K 1/10W 1% CHIP 0805	<u>^ ^ 5</u>
RB		10K 1/10W 1% CHIP 0805	<u>^ 5</u>
R9		1K 0.10W 1% CHIP 0805	Е В
R10	126195-1	TVS, 5.6V/40A SMD 0805	
R12		10K 1/10W 1% CHIP 0805	A 2
R12 R13		10K 1/10W 1% CHIP 0805	
			<u> </u>
R14		47.5 OHM 0.10W 1% CHIP	<u> </u>
R15	· · · · · · · · · · · · · · · · · · ·	47.5 OHM Ø.10W 1% CHIP	<u> </u>
R16		47.5 OHM Ø.10W 1% CHIP	C 9
R17	A11368-47R51		СВ
R18	A11368-47R51		СВ
R19	A11368-47R51	47.5 OHM 0.10W 1% CHIP	СВ
R20	A11368-47R51		С В
R21		47.5 OHM 0.10W 1% CHIP	C 8
RZ2		47.5 OHM 0.10W 1% CHIP	C 4
R23	A11368-47R51		<u> </u>
R24	A11368-47R51		<u> </u>
R25		47.5 OHM 0.10W 1% CHIP	C 4
R26	the second s	47.5 OHM 0.10W 1% CHIP	<u> </u>
R27	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R28	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R29	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R30	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R31	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R32	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	C 5
R33	A11368-47R51	47.5 OHM 0.10W 1% CHIP	С 5
R34	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 5
R35	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 5
R36	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 5
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		PARTS LIST	
REF DES	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION	MAP LOC.
R37	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>C 5</u>
R38	A11368-47R51		C 5
R39	A11368-47R51	47.5 OHM 0.10W 1% CHIP	DЗ
R40	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 3
R41	A11368-47R51	47.5 OHM 0.10W 1% CHIP	С З
R42	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R43	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R44	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 5
R45	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 5
R46	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 5
R47	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 5
R48	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 5
R49	A11368-47R51	47.5 OHM 0.10W 1% CHIP	A 4
R50	A11368-47R51	47.5 OHM 0.10W 1% CHIP	СВ
R51	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R52	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R53	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>C 9</u>
	· · · · · · · · · · · · · · · · · · ·		
R54	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R55	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R56	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R57	A11368-47R51		C B
R58	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>C 8</u>
R59	A11368-47R51	47.5 OHM 0.10W 1% CHIP	89
R60	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 9
R61	A11368-47R51	47.5 OHM 0.10W 1% CHIP	С 9
R62	A11368-47R51	47.5 OHM 0.10W 1% CHIP	С 9
R63	A11368-47R51	47.5 OHM 0.10W 1% CHIP	A B
R64	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 9
R65	A11368-47R51	47.5 OHM 0.10W 1% CHIP	DB
R66	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 8
R67	A11368-47R51		СВ
R68	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	C 9
R69	A11368-47R51		D B
R70	· · · · · · · · · · · · · · · · · · ·	10K 1/10W 1% CHIP 0805	88
R71		10K 1/10W 1% CHIP 0805	B 4
R72		10K 1/10W 1% CHIP 0805	B 4
R73			<u>B</u> 4
		10K 1/10W 1% CHIP 0805	
R74		10K 1/10W 1% CHIP 0805	<u> </u>
R75		10K 1/10W 1% CHIP 0805	<u>D5</u>
R76		10K 1/10W 1% CHIP 0805	<u>C 5</u>
R77	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R78		OPEN	E 5
R79		OPEN	<u> </u>
R8Ø	A11368-47R51	47.5 OHM 0.10W 1% CHIP	89
RB 1	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R82	A11368-47R51	47.5 OHM 0.10W 1% CHIP	DЗ
R83		OPEN	СВ
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REF DES	C.P.N	DESCRIP		ARTS I	- 4 0 1				MAP LOC.	
RB4	0.11.14.	OPEN	1100						E 5	
R85	A11368-10021		0W 1% C	HTP 0	805				E 5	
R86	A11368-10021							-	E 4	
R87	A11368-10021								A 4	
RBB	A11368-10021								A 4	
RB9	A11368-10021								AB	
R90	A11368-10021								AB	
R91	A11368-10011					-			E 7	
R92	A11368-22601								E 9	
R93	A11368-22601								E 9	
R94	A11368-22601								AB	
R95	A11368-10021	10K 1/1	0W 1% C	HIP Ø	805				Ε 5	
R96	A11368-10021								E 5	i
R97	A11368-10021		and the second						D 5	
R98	A11368-10021	10K 1/1	0W 1% C	HIP Ø	805				D 5	
R103	A11368-47R51								DB	
R104	A11368-47R51								 D B	
R105	A11368-47R51								D 8	
R106	A11368-47R51								89	
R107	A11368-47R51								B 9	
R108	A11368-47R51		· · · · · ·				*		89	
R109	A11368-47R51								85	
R110	A11368-47R51						• • • • •		85	
R111	A11368-47R51								85	
R112	A11368-47R51								D 3	
R113	A11368-47R51						· · · · ·		D 3	
R114	A11368-47R51								D 3	
R115	A11368-47R51						· · ·	· · · · · ·	A 7	
R116	A11368-10011								A 3	
R117	A11368-10021								A 3	
R118	A11368-10021								A 2	
R119	A11368-10021								A 3	
R120	A11368-47R51			h					A 7	1
R121	A11368-47R51								A 6	
R122	A11368-47R51								A 6	
R123	A11368-47R51	47.5 OH	M Ø. 10W	/ 1% C	HIP				A 7	
R124	A11368-47R51								A 7	
R125	A11368-47R51								A 7	
R126	A11368-47R51								A 7	
R127	A11368-47R51								A 7	
R128	A11368-47R51	······							A 7	
R129	A11368-47R51				· · · · · · · · · · · · · · · · · · ·				A 7	
R130	A11368-47R51							· ·	C 4	
R131	A11368-47R51	47.5 OH						· · · · · ·	D 5	
R132	A11368-47R51	47.5 OH						• • • • •	D 5	\neg
R133	A11368-47R51	47.5 OH							C 5	
R134	A11368-47R51	47.5 OH							C 5	
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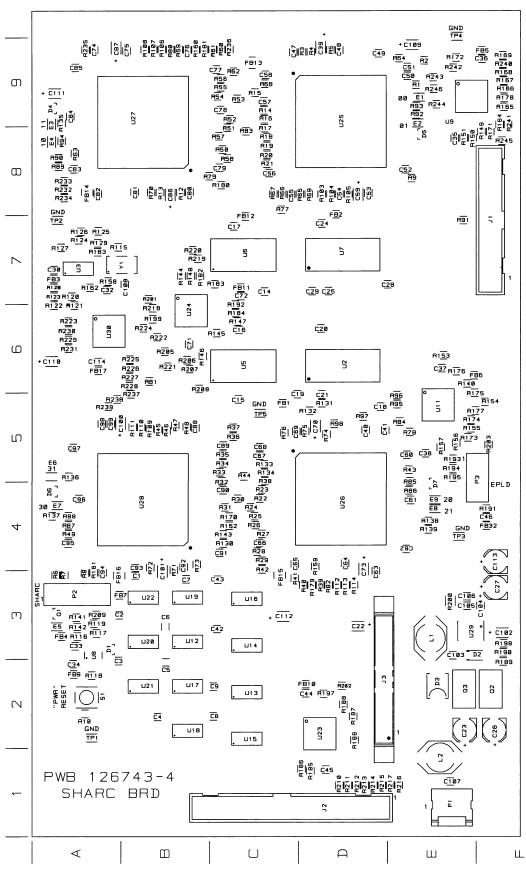
		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R135	A11368-22601	226 OHM 0.10W 1% CHIP 0805	A 9
R136	A11368-22601		A 5
R137	A11368-22601		A 4
R138	A11368-22601	226 OHM 0.10W 1% CHIP 0805	E 4
R139	A11368-22601	226 OHM 0.10W 1% CHIP 0805	E 4
R140	A11368-10021	10K 1/10W 1% CHIP 0805	E 6
R141	A11368-10021		A 3
R142		226 OHM 0.10W 1% CHIP 0805	A 3
R143	A11368-47R51		
R144	A11368-47R51		B 7
R145	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 6
R146	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R147	A11368-47R51		C 6
R148	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 7
R149	A11368-47R51		F B
R150	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
R151	A11368-33R21		EB
R152	A11368-47R51		E B
R153	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
· · · · · · · · · · · · · · · · · · ·	the second s		E 6
R154	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 5
R155	A11368-47R51		<u>E 5</u>
R156		47.5 OHM 0.10W 1% CHIP	E 5
R157	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>E 5</u>
R158	the state of the s	10K 1/10W 1% CHIP 0805	A 7
R159	A11368-10021		D 4
R160	A11368-10021	10K 1/10W 1% CHIP 0805	89
R161		1K 0.10W 1% CHIP 0805	A 3
R162		10K 1/10W 1% CHIP 0805	A 7
R163		10K 1/10W 1% CHIP 0805	A 7
R164	A11368-47R51		F 9
R165	A11368-47R51		F 9
R166	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 9
R167	A11368-47R51		F 9
R168	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 9
R169	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 9
R170	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R171	A11368-33R21	33.2 OHM 1% 0805 RES T/R	FB
R172	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 9
R173	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R174	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R175	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R176	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 6
R177	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R178	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 9
R179	A11368-10011	1K 0.10W 1% CHIP 0805	D3
R180	A11368-10021	10K 1/10W 1% CHIP 0805	СВ
R181	A11368-10021	10K 1/10W 1% CHIP 0805	89
		na na seconda de la contra de la	1
			1
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		CROWN INTERNATION	AL INC.
ERTY OF CRO	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR R THE MANUFACTURE OR DEVICES WITHOUT PERM	AND DRAWN JFL 8/10/99 DWG. NO. S	HEET 11 OF 15
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REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R182	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 7
R183	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 7
R184	A11368-47R51	47.5 OHM 0.10W 1% CHIP	С 6
R185	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 1
R186	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
R187	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 2
R188	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 2
R189	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
R190	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 3
R191	A11368-10021	10K 1/10W 1% CHIP 0805	F 4
R192	A11368-47851	47.5 OHM 0.10W 1% CHIP	Сб
R193	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R194	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R195	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R196	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>D</u> 2
R197	A11368-10021	10K 1/10W 1% CHIP 0805	D 2
R198	A11368-10021	10K 1/10W 1% CHIP 0805	F 3
R198	A11368-10021	47.5 OHM 0.10W 1% CHIP	B6
R200	126414-1	0.015 OHM 1W 1% 2512 T/R	<u> </u>
			<u></u>
R201	A11368-47R51 A11368-47R51	47.5 OHM 0.10W 1% CHIP 47.5 OHM 0.10W 1% CHIP	D 2
R202			F 5
R203	and the second s	1K 0.10W 1% CHIP 0805	<u> </u>
R205	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
R206	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	<u> </u>
R207	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>B 6</u>
R208		10K 1/10W 1% CHIP 0805	<u> </u>
R209	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	<u>A 3</u>
R210	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R211	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R212	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>D 1</u>
R213	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>D 1</u>
R214	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	<u>D 1</u>
R215	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>D 1</u>
R216	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R217	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R218	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	<u> </u>
R219	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 7
R220		47.5 OHM 0.10W 1% CHIP	<u> </u>
R221		47.5 OHM 0.10W 1% CHIP	<u> </u>
R222	A11368-47R51		B_6
R223	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>A 6</u>
R224	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R225	A11368-47R51	47.5 OHM 0.10W 1% CHIP	86
R226	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R227	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R228	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R229	A11368-10021	10K 1/10W 1% CHIP 0805	A 6
R230	A11368-10021	10K 1/10W 1% CHIP 0805	A 6
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			MAP LOC.
REF DES	C.P.N.	DESCRIPTION	A 6
R231		10K 1/10W 1% CHIP 0805	
R232		10K 1/10W 1% CHIP 0805	<u> </u>
R233		10K 1/10W 1% CHIP 0805	<u> </u>
R234		10K 1/10W 1% CHIP 0805	A B
R235		10K 1/10W 1% CHIP 0805	A 9 C 9
R236		10K 1/10W 1% CHIP 0805	
R237	A11368-47R51		<u>B 5</u>
R238	A11368-47R51		A 5 A 5
R239	A11368-47R51		A 5
R240			
R241		OPEN	a second a second s
R242		47.5 OHM 0.10W 1% CHIP	<u>E 9</u>
R243		47.5 OHM 0.10W 1% CHIP	<u> </u>
R244		47.5 OHM 0.10W 1% CHIP	<u> </u>
R245	A11368-47R51		<u> </u>
R246	A11368-47R51		<u> </u>
51	127059-1	SWITCH, SPST 6 MM SMT	<u>A 2</u>
TP1	127064-1	TEST POINT, SMT 1206	<u>A 2</u>
TP2	127064-1	TEST POINT, SMT 1206	A 7
TP3	127064-1	TEST POINT, SMT 1206	<u> </u>
TP4	127064-1	TEST POINT, SMT 1206	<u> </u>
TP5	127064-1	TEST POINT, SMT 1206	<u> </u>
U2	126357-1	IC, 1M X 16 SDRAM	<u> </u>
U3	126360-1	IC, 49FCT3805 BUFFER/CLK DRVR	<u> </u>
U5	126358-1	IC, 64K X 16 SRAM	<u> </u>
U6	126358-1	IC, 64K X 16 SRAM	<u> </u>
U7	126357-1	IC, 1M X 16 SDRAM	D 7
UB	126377-1		<u>A 3</u>
U9	127073-1	IC, MACH4LV-64/32-15VC	<u> </u>
	127073-1	IC, MACH4LV-64/32-15VC	<u> </u>
<u>U12</u>	126361-1	IC. 74LCX573	<u>B 3</u>
<u>U13</u>	126361-1	IC, 74LCX573	
	126361-1	IC, 74LCX573	
U15	126361-1	IC, 74LCX573	<u> </u>
U16	126361-1	IC, 74LCX573	
U17	126361-1	IC, 74LCX573	<u> </u>
U18	126361-1	IC, 74LCX573	
U19	126361-1	IC, 74LCX573	<u> </u>
U20	126361-1	IC, 74LCX573	<u>B 3</u>
U21	126361-1	IC. 74LCX573	<u> </u>
U22	126361-1	IC, 74LCX573	<u> </u>
U23	127073-1	IC, MACH4LV-64/32-15VC	D 2
U24	127072-1	IC, MACH4LV-64/32-10VC	<u> </u>
U25	126359-1	IC, 21065 SHARC DSP 3.3V	<u>D9</u>
U26	126359-1	IC, 21065 SHARC DSP 3.3V	D 4
U27	126359-1	IC, 21065 SHARC DSP 3.3V	<u> </u>
U28	126359-1	IC, 21065 SHARC DSP 3.3V	<u> </u>
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			ATIONAL INC.
SE DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED. COPIED. OR THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE DRAWN JFL 8/10/99 DWG. NO.	ANA 48517 PHONE (219) 294-8 SHEET 13 OF 15
		DRAWN JEL 8/10/99 DWG. NU.	JULLI 13 UF 131

PARTS LIST			
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
U29	126363-1	IC, MAX767	E3
U30	127073-1	IC, MACH4LV-64/32-15VC	A 6
130 Y1	127083-1	CRYSTAL, 30 MHZ	B 7
TI		PWB, USMB10 DSP SHARC	
	126743-4	PWB, USMBTØ DSF SHARL	
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			NATIONAL INC
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■СГОШП[®].



PWA #128047-3 Component Map (Component Side)

PWA #128047-4

SHARC Module PWB #126743-4 Schematic #126742 Rev. D

	5 C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
		0.1 MF 50V 10% 0805	В 3
C2	A11427-104K2		A 3
C3		0.1 MF 50V 10% 0805	A 2
C4		0.1 MF 50V 10% 0805	B Z
C5	and the second	0.1 MF 50V 10% 0805	B 2
<u>C6</u>	A11427-104K2		В 3
C7	A11427-104K2		83
C8	A11427-104K2		C 2
C9		0.1 MF 50V 10% 0805	C 2
C14	A11427-104K2		C 7
C15	A11427-104K2		C 5
C16		0.1 MF 50V 10% 0805	СБ
C17		0.1 MF 50V 10% 0805	C 7
C18	A11427-104K2	0.1 MF 50V 10% 0805	D 5
C19	A11427-104K2	0.1 MF 50V 10% 0805	C 5
C20	A11427-104K2		D 6
C21	A11427-104K2	0.1 MF 50V 10% 0805	D 5
C22		10 UF 16V 20% TANT	D 3
C23		CAP, 220UF/6.3V, 20%, LOW ESR, ALUM SMT	E 2
C24		0.1 MF 50V 10% 0805	D 7
C25		0.1 MF 50V 10% 0805	D 7
C26	127074-1	CAP, 220UF/6.3V, 20%, LOW ESR, ALUM SMT	F 2
C27	and the second	CAP, 220UF/6.3V, 20%, LOW ESR, ALUM SMT	F 3
C28		0.1 MF 50V 10% 0805	E 7
C29	A11427-104K2	0.1 MF 50V 10% 0805	D 7
C30	A11427-104K2	0.1 MF 50V 10% 0805	A 7
C32	A11427-104K2	0.1 MF 50V 10% 0805	A 7
СЭЭ	A11427-104K2	0.1 MF 50V 10% 0805	A 3
C34	A11427-104K2	0.1 MF 50V 10% 0805	A 2
C35	A11427-104K2	0.1 MF 50V 10% 0805	E 8
C36	A11427-104K2	0.1 MF 50V 10% 0805	F 9
C37	A11427-104K2	0.1 MF 50V 10% 0805	E 6
C38	A11427-104K2	0.1 MF 50V 10% 0805	E 5
C39	C10391-8	10 UF 16V 20% TANT	D 9
C40	A11427-104K2	0.1 MF 50V 10% 0805	D 5
C41		0.1 MF 50V 10% 0805	D 5
C42		0.1 MF 50V 10% 0805	СЗ
C43	A11427-104K2	0.1 MF 50V 10% 0805	СЗ
C44	······································	0.1 MF 50V 10% 0805	D 2
C45	A11427-104K2		D 1
C46	A11427-104K2		F 4
C47	A11427-104K2		<u>C 9</u>
C48	A11427-104KZ	0.1 MF 50V 10% 0805	D 9
C49	A11427-104K2	0.1 MF 50V 10% 0805	D 9
C50	A11427-104K2	0.1 MF 50V 10% 0805	E 9
C51	A11427-104K2		E 9
C52	A11427-104K2	0.1 MF 50V 10% 0805	EB
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		CROWN INTERNATIO	NAL INC.
•		1718 WEST MISHAWAKA ROAD ELKHART. INDIANA 46517	PHONE (219) 294-8
SE DRAWING	S AND SPECIFICATIONS ARE ROWN INTERNATIONAL, INC.	AND DRAWN IEI 10/28/00 DWG, NO.	SHEET 5 OF 15
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EF DES C.F.N. DESCRIPTION MAP LOC. 53 A11427-184K2 0.1 MF 50V 18% 0885 D D 54 A11427-184K2 0.1 MF 50V 18% 0885 C B 55 A11427-184K2 0.1 MF 50V 18% 0885 C B 55 A11427-184K2 0.1 MF 50V 18% 0885 C B 56 A11427-184K2 0.1 MF 50V 18% 0885 C B 58 C10391-8 18 UF 16V 28% TANT D B B 59 C11427-184K2 0.1 MF 50V 18% 0885 D 4 62 A11427-184K2 0.1 MF 50V 18% 0885 D 4 63 A11427-184K2 0.1 MF 50V 18% 0885 C 4 64 A11427-184K2 0.1 MF 50V 18% 0885 C 4 65 A11427-184K2 0.1 MF 50V 18% 0885 C 5 67 A11427-184K2 0.1 MF 50V 18%	33 A11427-104K2 0.1 MF 50V 10X 0805 54 A11427-104K2 0.1 MF 50V 10X 0805 55 A11427-104K2 0.1 MF 50V 10X 0805 55 A11427-104K2 0.1 MF 50V 10X 0805 56 A11427-104K2 0.1 MF 50V 10X 0805 58 A11427-104K2 0.1 MF 50V 10X 0805 59 C10391-8 10 UF 16V 20X TANT 50 A11427-104K2 0.1 MF 50V 10X 0805 51 A11427-104K2 0.1 MF 50V 10X 0805 52 A11427-104K2 0.1 MF 50V 10X 0805 53 A11427-104K2 0.1 MF 50V 10X 0805 54 A11427-104K2 0.1 MF 50V 10X 0805 55 A11427-104K2 0.1 MF 50V <t< th=""><th>D 8 C 8 C 9 C 9 C 9 D 8 E 5</th></t<>	D 8 C 8 C 9 C 9 C 9 D 8 E 5
54 A11427-184K2 0.1 MF 50V 10X 0805 C B 55 A11427-184K2 0.1 MF 50V 10X 0805 C B 57 A11427-184K2 0.1 MF 50V 10X 0805 C B 57 A11427-184K2 0.1 MF 50V 10X 0805 C B 58 A11427-184K2 0.1 MF 50V 10X 0805 C C 59 C10391-8 10 UF 16V 20X TANT D D 60 A11427-104K2 0.1 MF 50V 10X 0805 E 4 51 A11427-104K2 0.1 MF 50V 10X 0805 D D 53 A11427-104K2 0.1 MF 50V 10X 0805 D D 54 A11427-104K2 0.1 MF 50V 10X 0805 C C 54 A11427-104K2 0.1 MF 50V 10X 0805 C C 56 A11427-104K2 0.1 MF 50V 10X 0805 C C 57 C10391-8 10 UF 10V 20X TANT D D 58 A11427-104K2 0.1 MF 50V 10X 0805	54 A11427-104K2 0.1 MF 50V 10% 0805 55 A11427-104K2 0.1 MF 50V 10% 0805 56 A11427-104K2 0.1 MF 50V 10% 0805 57 A11427-104K2 0.1 MF 50V 10% 0805 58 A11427-104K2 0.1 MF 50V 10% 0805 59 C10391-8 10 UF 16V 20% TANT 50 A11427-104K2 0.1 MF 50V 10% 0805 51 A11427-104K2 0.1 MF 50V 10% 0805 52 A11427-104K2 0.1 MF 50V 10% 0805 53 A11427-104K2 0.1 MF 50V 10% 0805 54 A11427-104K2 0.1 MF 50V 10% 0805 55 A11427-104K2 0.1 MF 50V 10% 0805 56 A11427-104K2 0.1 MF 50V <t< th=""><th>D 8 C 8 C 9 C 9 C 9 D 8 E 5</th></t<>	D 8 C 8 C 9 C 9 C 9 D 8 E 5
55 A11427-104K2 0.1 MF 50V 10% 0005 C B 56 A11427-104K2 0.1 MF 50V 10% 0005 C G 57 A11427-104K2 0.1 MF 50V 10% 0005 C G 58 C 10391-8 10 UF 16V 20X TANT D B 60 A11427-104K2 0.1 MF 50V 10% 0005 E 5 51 A11427-104K2 0.1 MF 50V 10% 0005 E 4 62 A11427-104K2 0.1 MF 50V 10% 0005 E 4 63 A11427-104K2 0.1 MF 50V 10% 0005 C 4 64 A11427-104K2 0.1 MF 50V 10% 0005 C 5 64 A11427-104K2 0.1 MF 50V 10% 0005 C 5 64 A11427-104K2 0.1 MF 50V 10% 0005 C 5 70 C10391-8 10 UF 16V 20% TANT D 5 71 A11427-104K2 0.1 MF 50V 10% 0005 C 7 73 C10391-8 10 UF 16V 20% TANT	55 A11427-104K2 0.1 MF 50V 10% 0805 56 A11427-104K2 0.1 MF 50V 10% 0805 57 A11427-104K2 0.1 MF 50V 10% 0805 58 A11427-104K2 0.1 MF 50V 10% 0805 59 C10391-8 10 UF 16V 20% TANT 50 A11427-104K2 0.1 MF 50V 10% 0805 51 A11427-104K2 0.1 MF 50V 10% 0805 52 A11427-104K2 0.1 MF 50V 10% 0805 53 A11427-104K2 0.1 MF 50V 10% 0805 54 A11427-104K2 0.1 MF 50V 10% 0805 55 A11427-104K2 0.1 MF 50V 10% 0805 56 A11427-104K2 0.1 MF 50V 10% 0805 57 A11427-104K2 0.1 MF 50V <t< td=""><td>C 8 C 9 C 9 C 9 D 8 E 5</td></t<>	C 8 C 9 C 9 C 9 D 8 E 5
56 A11427-104K2 0.1 MF 50V 10% 0005 C 9 57 A11427-104K2 0.1 MF 50V 10% 0005 C 9 58 A11427-104K2 0.1 MF 50V 10% 0005 C 9 59 C10391-8 10 UF 15V 20% TANT D 8 60 A11427-104K2 0.1 MF 50V 10% 0005 E 4 61 A11427-104K2 0.1 MF 50V 10% 0005 E 4 62 A11427-104K2 0.1 MF 50V 10% 0005 C 4 63 A11427-104K2 0.1 MF 50V 10% 0005 C 4 64 A11427-104K2 0.1 MF 50V 10% 0005 C 5 65 A11427-104K2 0.1 MF 50V 10% 0005 C 5 66 A11427-104K2 0.1 MF 50V 10% 0005 C 5 70 C10391-8 10 UF 16V 20% TANT D 5 71 A11427-104K2 0.1 MF 50V 10% 0005 C 7 73 C10391-8 10 UF 16V 20% TANT <	36 A11427-104K2 0.1 MF 50V 10% 0805 57 A11427-104K2 0.1 MF 50V 10% 0805 58 A11427-104K2 0.1 MF 50V 10% 0805 59 C10391-8 10 UF 16V 20% TANT 50 A11427-104K2 0.1 MF 50V 10% 0805 51 A11427-104K2 0.1 MF 50V 10% 0805 52 A11427-104K2 0.1 MF 50V 10% 0805 53 A11427-104K2 0.1 MF 50V 10% 0805 54 A11427-104K2 0.1 MF 50V 10% 0805 55 A11427-104K2 0.1 MF 50V 10% 0805 56 A11427-104K2 0.1 MF 50V 10% 0805 57 A11427-104K2 0.1 MF 50V 10% 0805 58 A11427-104K2 0.1 MF 50V 10% 0805 59 A11427-104K2 0.1 MF 50V 10% 0805	C 8 C 9 C 9 D 8 E 5
57 A11427-104K2 0.1 MF 50V 10X 0005 C 9 58 A11427-104K2 0.1 MF 50V 10X 0005 C 9 58 C 10391-8 10 UF 16V 20X TANT D 0 58 A11427-104K2 0.1 MF 50V 10X 0005 E 4 61 A11427-104K2 0.1 MF 50V 10X 0005 E 4 62 A11427-104K2 0.1 MF 50V 10X 0005 D 4 63 A11427-104K2 0.1 MF 50V 10X 0005 D 4 64 A11427-104K2 0.1 MF 50V 10X 0005 C 4 65 A11427-104K2 0.1 MF 50V 10X 0005 C 5 61 A11427-104K2 0.1 MF 50V 10X 0005 C 5 61 A11427-104K2 0.1 MF 50V 10X 0005 C 5 70 C 10391-8 10 UF 16V 20X TANT D 5 71 A11427-104K2 0.1 MF 50V 10X 0005 C 7 73 C 10391-8 10 UF 16V 20X TANT	57 A11427-104K2 0.1 MF 50V 10% 0805 58 A11427-104K2 0.1 MF 50V 10% 0805 59 C10391-8 10 UF 16V 20% TANT 50 A11427-104K2 0.1 MF 50V 10% 0805 51 A11427-104K2 0.1 MF 50V 10% 0805 52 A11427-104K2 0.1 MF 50V 10% 0805 53 A11427-104K2 0.1 MF 50V 10% 0805 54 A11427-104K2 0.1 MF 50V 10% 0805 55 A11427-104K2 0.1 MF 50V 10% 0805 56 A11427-104K2 0.1 MF 50V 10% 0805 57 A11427-104K2 0.1 MF 50V 10% 0805 58 A11427-104K2 0.1 MF 50V 10% 0805 59 A11427-104K2 0.1 MF 50V 10% 0805 70 C10391-8 10 UF 16V 20% TANT	C 9 C 9 D 8 E 5
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B8 A11427-104K2 0.1 MF 50V 10% 0805 B5 B9 A11427-104K2 0.1 MF 50V 10% 0805 C 4 90 A11427-104K2 0.1 MF 50V 10% 0805 C 4 91 A11427-104K2 0.1 MF 50V 10% 0805 C 4 92 A11427-104K2 0.1 MF 50V 10% 0805 B 4 93 A11427-104K2 0.1 MF 50V 10% 0805 B 4 94 A11427-104K2 0.1 MF 50V 10% 0805 A 3 95 A11427-104K2 0.1 MF 50V 10% 0805 A 4 96 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V		
B9 A11427-104K2 Ø.1 MF 50V 10% Ø805 C 5 90 A11427-104K2 Ø.1 MF 50V 10% Ø805 C 4 91 A11427-104K2 Ø.1 MF 50V 10% Ø805 C 4 92 A11427-104K2 Ø.1 MF 50V 10% Ø805 B 4 93 A11427-104K2 Ø.1 MF 50V 10% Ø805 B 4 94 A11427-104K2 Ø.1 MF 50V 10% Ø805 A 3 95 A11427-104K2 Ø.1 MF 50V 10% Ø805 A 4 96 A11427-104K2 Ø.1 MF 50V 10% Ø805 A 4 97 A11427-104K2 Ø.1 MF 50V 10% Ø805 A 5 98 A11427-104K2 Ø.1 MF 50V 10% Ø805 A 5 99 A11427-104K2 Ø.1 MF		
90 A11427-104K2 0.1 MF 50V 10% 0805 C 4 91 A11427-104K2 0.1 MF 50V 10% 0805 C 4 92 A11427-104K2 0.1 MF 50V 10% 0805 B 4 93 A11427-104K2 0.1 MF 50V 10% 0805 B 4 94 A11427-104K2 0.1 MF 50V 10% 0805 A 3 95 A11427-104K2 0.1 MF 50V 10% 0805 A 4 96 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF		
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92 A11427-104K2 0.1 MF 50V 10% 0805 B 4 93 A11427-104K2 0.1 MF 50V 10% 0805 B 4 94 A11427-104K2 0.1 MF 50V 10% 0805 A 3 95 A11427-104K2 0.1 MF 50V 10% 0805 A 4 96 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5		C 4
93 A11427-104K2 0.1 MF 50V 10% 0805 B 4 94 A11427-104K2 0.1 MF 50V 10% 0805 A 3 95 A11427-104K2 0.1 MF 50V 10% 0805 A 4 96 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5	31 A11427-104K2 0.1 MF 50V 10% 0805	C 4
94 A11427-104K2 0.1 MF 50V 10% 0805 A 3 95 A11427-104K2 0.1 MF 50V 10% 0805 A 4 96 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5	32 A11427-104K2 0.1 MF 50V 10% 0805	B 4
95 A11427-104K2 0.1 MF 50V 10% 0805 A 4 96 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5	33 A11427-104K2 0.1 MF 50V 10% 0805	B 4
96 A11427-104K2 0.1 MF 50V 10% 0805 A 4 97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5	34 A11427-104K2 0.1 MF 50V 10% 0805	A 3
97 A11427-104K2 0.1 MF 50V 10% 0805 A 5 98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5	35 A11427-104K2 0.1 MF 50V 10% 0805	A 4
98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5	36 A11427-104K2 0.1 MF 50V 10% 0805	A 4
98 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5 99 A11427-104K2 0.1 MF 50V 10% 0805 A 5	37 A11427-104K2 0.1 MF 50V 10% 0805	A 5
99 A11427-104K2 0.1 MF 50V 10% 0805 A 5		
	39 A11427-104K2 0.1 MF 50V 10% 0805	
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REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
C100	C10391-8	10 UF 16V 20% TANT	A 5
C101	C10391-8	10 UF 16V 20% TANT	В 3
C102	C10391-8	10 UF 16V 20% TANT	F 3
C103	A11427-104K2	0.1 MF 50V 10% 0805	ЕЗ
C104	A11427-103K2	0.01MF 50V 10% CHIP 0805	F 3
C105	A11427-104K2	0.1 MF 50V 10% 0805	ЕЗ
C106	A11427-104K2	0.1 MF 50V 10% 0805	E 3
C107	A11427-104K2	0.1 MF 50V 10% 0805	E 1
C108	A11427-104K2	0.1 MF 50V 10% 0805	B 7
C109	C10391-8	10 UF 16V 20% TANT	E 9
C110	C10391-B	10 UF 16V 20% TANT	A 6
C111	C10391-B	10 UF 16V 20% TANT	A 9
C112	C10391-8	10 UF 16V 20% TANT	СЗ
C113	127074-1	CAP, 220UF/6.3V, 20%, LOW ESR, ALUM SMT	F 4
C114		0.1 MF 50V 10% 0805	A B
D1	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	<u> </u>
D2	125711-1	DIDDE, SCHOTTKEY 40V 1A DO214A	<u>E 3</u>
D3	126411-1	DIODE, MBRS340T3	E 2
D4	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	A 9
D5	C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT	E B
D6 D7	C 9283-0 C 9283-0	DIODE, 1N914/1N4148 SOT-23 SMT DIODE, 1N914/1N4148 SOT-23 SMT	<u> </u>
E1	126473-1	LED, SMT 1205 GREEN	E 9
E2	126473-1	LED, SMT 1206 GREEN	E 9
E3	126473-1	LED, SMT 1206 GREEN	A 9
E4	126473-1	LED, SMT 1206 GREEN	A B
E5	126473-1	LED, SMT 1206 GREEN	A 3
E6	126473-1	LED, SMT 1206 GREEN	A 5
E7	126473-1	LED, SMT 1206 GREEN	A 4
E8	126473-1	LED, SMT 1206 GREEN	E 4
E9	126473-1	LED, SMT 1206 GREEN	E 4
FB1	125846-1	FERRITE BEAD, 0.5A, 6000HMS	C 5
FB2	125845-1	FERRITE BEAD, 0.5A, 6000HMS	DB
FB3	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 7
FB4	125846-1	FERRITE BEAD, 0.5A, 6000HMS	A 3
FB5	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 9
FB6	125846-1	FERRITE BEAD, 0.5A, 6000HMS	E 6
FB7	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB9	125846-1	FERRITE BEAD, Ø.5A, 6000HMS	A 2
FB10	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 2
FB11	125846-1	FERRITE BEAD, 0.5A, 6000HMS	
FB12	125846-1	FERRITE BEAD, 0.5A, 6000HMS	
FB13	125694-1	FERRITE BEAD, 2A SMT 2A	
FB14	125694-1	FERRITE BEAD, 2A SMT 2A	<u> </u>
FB15		FERRITE BEAD, 2A SMT 2A FERRITE BEAD, 2A SMT 2A	
FB16 FB17	125694-1	FERRITE BEAD, 2A SMT 2A FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
	123040-1		<u> </u>
	 		
		CROWN INTERNATION	····
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED. COPIED. OR R THE MANUFACTURE OR DEVICES WITHOUT PERM	E THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 AND DRAWN JFL 10/26/99 DWG. NO.	PHONE (219) 294- SHEET 7 OF 15
NOT BE RE	PRODUCED. COPIED. OR	$\begin{array}{c c} \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	

	C. P. N.	DESCRIPTION	MAP LOC.
FB32	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 4
J 1	127183-1	HEADER, 26PIN Ø.1 CTRS	F 7
12	127184-1	HEADER, 40PIN 0.1 CTRS	C 1
13	127680-1	HEADER, 50P 2ROW .050 CTR LONG	D Z
_ 1	126412-1	INDUCTOR, 3.3 UH SMD	E 3
_2	126412-1	INDUCTOR, 3.3 UH SMD	E 1
21	C 8890-3	HEADER, 3POS, Ø.156" TIN	E 1
2	126466-1	HEADER, 14 PIN DUAL ROW	А З
23	C 8666-7	10 PIN .100X.100 HDR. GOLD	F 5
21	C 744B-1	MMBT3904 CHIP NPN	A 3
22	126410-1	PWR FET, MTD20N03HDL	F 2
23	126410-1	PWR FET, MTD20N03HDL	E 2
71	A11368-10021	10K 1/10W 1% CHIP 0805	E 9
72		10K 1/10W 1% CHIP 0805	E 9
13		10K 1/10W 1% CHIP 0805	D 9
74		10K 1/10W 1% CHIP 0805	D 9
15	A11368-10021	10K 1/10W 1% CHIP 0805	D 9
86		10K 1/10W 1% CHIP 0805	АЗ
7		10K 1/10W 1% CHIP 0805	A 3
18	A11368-10021	10K 1/10W 1% CHIP 0805	EА
<u>89</u>		1K 0.10W 1% CHIP 0805	Εθ
10	126195-1	TVS, 5.6V/40A SMD 0805	A 2
12		10K 1/10W 1% CHIP 0805	88
13	A11368-10021	10K 1/10W 1% CHIP 0805	B 8
1 4	A11368-10H01	10.0 OHM 0.10W 1% 0805 T/R	C 9
R15 R16	A11368-10H01	10.0 OHM 0.10W 1% 0805 T/R	<u> </u>
17		47.5 OHM 0.10W 1% CHIP	<u> </u>
18		47.5 OHM 0.10W 1% CHIP	<u> </u>
19		47.5 OHM 0.10W 1% CHIP 47.5 OHM 0.10W 1% CHIP	СВ
20	A11368-47R51		СВ
121		47.5 OHM 0.10W 1% CHIP	СВ
22		10.0 OHM 0.10W 1% 0805 T/R	СВ
23	A11368-10801	10.0 OHM 0.10W 1% 0805 T/R	
24		47.5 OHM 0.10W 1% CHIP	
25	A11368-47R51		
26		47.5 OHM 0.10W 1% CHIP	
27		47.5 OHM 0.10W 1% CHIP	
28		47.5 OHM 0.10W 1% CHIP	
29	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
30	and the second	10.0 OHM 0.10W 1% 0805 T/R	
31	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	
32	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
33	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	
34	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	
35	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
36	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
	ND SPECIFICATIONS ARE N INTERNATIONAL, INC. RODUCED, COPIED, OR U THE MANUFACTURE OR DEVICES WITHOUT PERMI	CROWN INTERNATION	PHONE (219) 294-B

		PARTS LIST	••••••••••••••••••••••••••••••••••••••
REF DES		DESCRIPTION	MAP LOC.
R37		47.5 OHM Ø.10W 1% CHIP	C 5
R38		47.5 OHM 0.10W 1% CHIP	C 5
R39	A11368-47R51		DЗ
R4Ø	A11368-22R11	22.1 OHM 0.10W 1% 0805 T/R	DЗ
R41	A11368-22R11	22.1 OHM 0.10W 1% 0805 T/R	СЗ
R42	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R43	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R44	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 5
R45	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 5
R46	A11368-22R11	22.1 OHM 0.10W 1% 0805 T/R	B 5
R47	A11368-22R11	22.1 OHM 0.10W 1% 0805 T/R	85
R48	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 5
R49	A11368-47R51	47.5 OHM 0.10W 1% CHIP	A 4
R50	A11368-10R01	10.0 OHM 0.10W 1% 0805 T/R	СВ
R51	A11368-47R51	47.5 OHM 0.10W 1% CHIP	СВ
R52	A11368-47R51	47.5 OHM 0.10W 1% CHIP	С 9
R53	A11368-47R51		C 9
R54	A11368-47R51		С 9
R55	A11368-47R51		C 9
R56	A11368-47R51		<u> </u>
R57		10.0 OHM 0.10W 1% 0805 T/R	СВ
R58	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 8
R59	A11368-47R51	47.5 OHM 0.10W 1% CHIP	89
R60	A11368-22R11		C 9
R61	A11368-22R11		
R62	A11368-47R51		
R63	A11368-47R51		
R64	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R65		22.1 OHM 0.10W 1% 0805 T/R	E 9
R66	A11368-22R11 A11368-22R11		DB
R67		22.1 OHM 0.10W 1% 0805 T/R	
R68	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
R69	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
	A11368-47R51		DB
R70		10K 1/10W 1% CHIP 0805	BB
R71		10K 1/10W 1% CHIP 0805	<u>B4</u>
R72		10K 1/10W 1% CHIP 0805	B 4
R73		10K 1/10W 1% CHIP 0805	<u> </u>
R74		10K 1/10W 1% CHIP 0805	D 5
R75		10K 1/10W 1% CHIP 0805	<u>D5</u>
R76		10K 1/10W 1% CHIP 0805	<u>C 5</u>
R77	A11368-47R51	47.5 OHM 0.10W 1% CHIP	СВ
R78		OPEN	E 5
R79		OPEN	88
R80	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 9
RB1	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R82	A11368-47R51	47.5 OHM 0.10W 1% CHIP	DЗ
R83		OPEN	СВ
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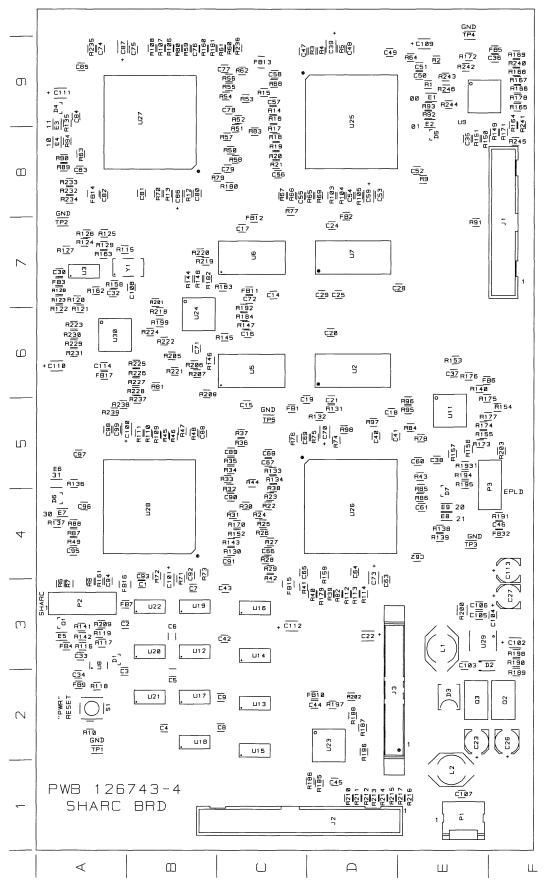
		PARTS LIST	T
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R84		OPEN	<u>E 5</u>
R85		10K 1/10W 1% CHIP 0805	E 5
R86	A11368-10021	10K 1/10W 1% CHIP 0805	E 4
R87	A11368-10021	10K 1/10W 1% CHIP 0805	A 4
RBB	A11368-10021	10K 1/10W 1% CHIP 0805	A 4
R89	A11368-10021	10K 1/10W 1% CHIP 0805	A 8
R90	A11368-10021	10K 1/10W 1% CHIP 0805	AB
R91	A11368-10011	1K 0.10W 1% CHIP 0805	E 7
R92	A11368-22601	226 OHM 0.10W 1% CHIP 0805	E 9
R93	A11368-22601	226 OHM 0.10W 1% CHIP 0805	E 9
R94		226 OHM 0.10W 1% CHIP 0805	AB
R95		10K 1/10W 1% CHIP 0805	E 5
R96		10K 1/10W 1% CHIP 0805	E 5
R97		10K 1/10W 1% CHIP 0805	D 5
R98	the second se	10K 1/10W 1% CHIP 0805	D 5
R103		22.1 OHM 0.10W 1% 0805 T/R	DB
		47.5 OHM 0.10W 1% CHIP	D B
R104			
R105	A11368-47R51		89
R106		22.1 OHM 0.10W 1% 0805 T/R	89
R107		47.5 OHM 0.10W 1% CHIP	
R108		47.5 OHM Ø.10W 1% CHIP	<u>B 9</u>
R109	A11368-22R11		<u>B 5</u>
R110		47.5 OHM 0.10W 1% CHIP	85
R111		47.5 OHM 0.10W 1% CHIP	В 5
R112		22.1 OHM 0.10W 1% 0805 T/R	DЗ
R113	A11368-47R51	47.5 OHM 0.10W 1% CHIP	DЭ
R114	A11368-47R51	47.5 OHM 0.10W 1% CHIP	DЗ
R115	A11368-47R51	47.5 OHM 0.10W 1% CHIP	A 7
R116	A11368-10011	1K 0.10W 1% CHIP 0805	A 3
R117	A11368-10021	10K 1/10W 1% CHIP 0805	A 3
R118	A11368-10021	10K 1/10W 1% CHIP 0805	A Z
R119	A11368-10021	10K 1/10W 1% CHIP 0805	A 3
R120	A11368-47R51	47.5 OHM 0.10W 1% CHIP	A 7
R121	and the second se	47.5 OHM 0.10W 1% CHIP	A 6
R122	and the second	47.5 OHM 0.10W 1% CHIP	АБ
R123		47.5 OHM 0.10W 1% CHIP	A 7
R124	and the second sec	47.5 OHM 0.10W 1% CHIP	A 7
R125	the second se	47.5 OHM 0.10W 1% CHIP	A 7
R125		47.5 OHM 0.10W 1% CHIP	A 7
R126	A11368-47R51	47.5 OHM 0.10W 1% CHIP	A 7
			A 7
R128	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
R129	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	
R130	A11368-47R51	47.5 OHM 0.10W 1% CHIP	
R131	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	D 5
R132	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	D 5
R133	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>C 5</u>
R134	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
	<u> </u>		
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REF DES	Г Р N	PARTS LIST DESCRIPTION	MAP LOC.
R135	··· · · · · · · · · · · · · · · · · ·	226 OHM 0.10W 1% CHIP 0805	A 9
R136		226 OHM 0.10W 1% CHIP 0805	A 5
R130	A11368-22601	226 OHM 0.10W 1% CHIP 0805	A 3
R138	A11368-22601	226 OHM 0.10W 1% CHIP 0805	E 4
			E 4
R139		225 OHM 0.10W 1% CHIP 0805	
R140		10K 1/10W 1% CHIP 0805	
R141 R142			A 3 A 3
		226 OHM 0.10W 1% CHIP 0805	
R143		47.5 OHM 0.10W 1% CHIP	<u>С4</u> В7
R144		47.5 OHM Ø.10W 1% CHIP	
R145		47.5 OHM 0.10W 1% CHIP	
R146	· · · · · · · · · · · · · · · · · · ·	47.5 OHM 0.10W 1% CHIP	<u> </u>
R147	A11368-47R51		
R148		47.5 OHM 0.10W 1% CHIP	B 7
R149		47.5 OHM 0.10W 1% CHIP	F B
R150	and a second	47.5 OHM 0.10W 1% CHIP	EB
R151		33.2 OHM 1% 0805 RES T/R	EB
R152	A11368-47R51		
R153		47.5 OHM 0.10W 1% CHIP	E 6
R154		47.5 OHM Ø.10W 1% CHIP	F 5
R155		47.5 OHM 0.10W 1% CHIP	E 5
R156		47.5 OHM 0.10W 1% CHIP	E 5
R157		47.5 OHM 0.10W 1% CHIP	E 5
R158		10K 1/10W 1% CHIP 0805	A 7
R159		10K 1/10W 1% CHIP 0805	D 4
R160		10K 1/10W 1% CHIP 0805	89
R161		1K 0.10W 1% CHIP 0805	<u> </u>
R162	A11368-10021	10K 1/10W 1% CHIP 0805	A 7
R163	·····	10K 1/10W 1% CHIP 0805	A 7
R164		47.5 OHM 0.10W 1% CHIP	F 9
R165	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 9
R166		47.5 OHM 0.10W 1% CHIP	<u>F9</u>
R167	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 9
R168	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 9
R169	and the second	47.5 OHM 0.10W 1% CHIP	F 9
R170	A11368-47R51	47.5 OHM 0.10W 1% CHIP	C 4
R171	A11368-33R21	33.2 OHM 1% 0805 RES T/R	F 8
R172	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 9
R173	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R174	A11368-47R51		E 5
R175	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R176	A11368-47R51	47.5 OHM 0.10W 1% CHIP	Е Б
R177	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 5
R178	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	F 9
R179	A11368-10011	1K 0.10W 1% CHIP 0805	DЗ
R180	A11368-10021	10K 1/10W 1% CHIP 0805	СВ
R1B1	A11368-10021	10K 1/10W 1% CHIP 0805	В 9
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E DRAWINGS	AND SPECIFICATIONS AR AN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE DR DEVICES WITHOUT PERM	AND DRAWN JFL 10/26/99 DWG. NO. 5	HEET 11 OF 15
	NOUCLEY, LUTIEN, UN	USED SALE ISSION. PROJ. MD404D0 128047	

REE DEC	C.P.N.	DESCRIPTION	MAP LOC.
R182		47.5 OHM 0.10W 1% CHIP	B 7
R183		47.5 OHM 0.10W 1% CHIP	
R184		47.5 OHM 0.10W 1% CHIP	C 6
R185	and the second	47.5 OHM 0.10W 1% CHIP	D 1
R185		47.5 OHM 0.10W 1% CHIP	D 1
R187	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 2
R188		47.5 OHM 0.10W 1% CHIP	D Z
R189	1	47.5 OHM 0.10W 1% CHIP	F 2
R190		47.5 OHM 0.10W 1% CHIP	F 3
R191	······	10K 1/10W 1% CHIP 0805	F 4
R192		47.5 OHM 0.10W 1% CHIP	Сб
R193	* • • • • • • • • • • • • • • • • • • •	47.5 OHM 0.10W 1% CHIP	E 5
R194	1	47.5 OHM 0.10W 1% CHIP	E 5
R195		47.5 OHM 0.10W 1% CHIP	E 5
R196	· · · · · · · · · · · · · · · · · · ·	47.5 OHM 0.10W 1% CHIP	D 2
R197	1	10K 1/10W 1% CHIP 0805	D 2
R198		10K 1/10W 1% CHIP 0805	F 3
R199		47.5 OHM 0.10W 1% CHIP	B 6
R200	126414-1	0.015 OHM 1W 1% 2512 T/R	Е 3
R201		47.5 OHM Ø.10W 1% CHIP	B 7
R202		47.5 OHM 0.10W 1% CHIP	D 2
R203		1K 0.10W 1% CHIP 0805	F 5
R205		47.5 OHM Ø.10W 1% CHIP	86
R206		47.5 OHM 0.10W 1% CHIP	B 6
R207	and a substant do understant a substant and a substant a substant a substant a substant a substant a substant a	47.5 OHM 0.10W 1% CHIP	86
R208	A11368-10021	10K 1/10W 1% CHIP 0805	B 6
R209	A11368-47R51	47.5 OHM 0.10W 1% CHIP	АЗ
R210	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 1
R211	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 1
R212	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 1
R213	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 1
R214	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 1
R215	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 1
R216	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 1
R217	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 1
R218	and the second state of th	47.5 OHM 0.10W 1% CHIP	B 6
R219	and the second sec	47.5 OHM 0.10W 1% CHIP	B 7
R220	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 7
R221	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R222	A11368-47R51	47.5 OHM 0.10W 1% CHIP	86
R223	A11368-47R51		АБ
R224	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R225	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R226	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R227	A11368-47R51	47.5 OHM 0.10W 1% CHIP	B 6
R228	A11368-47R51	47.5 OHM 0.10W 1% CHIP	86
R229	A11368-10021	10K 1/10W 1% CHIP 0805	A 6
R230	A11368-10021	10K 1/10W 1% CHIP 0805	A 6
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REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R231		10K 1/10W 1% CHIP 0805	A 6
R232	and the second se	10K 1/10W 1% CHIP 0805	AB
R233		10K 1/10W 1% CHIP 0805	AB
R234	A11368-10021	10K 1/10W 1% CHIP 0805	AB
R235		10K 1/10W 1% CHIP 0805	A 9
R236	A11368-10021	10K 1/10W 1% CHIP 0805	C 9
R237		47.5 OHM Ø.10W 1% CHIP	B 5
R238	A11368-47R51	47.5 OHM 0.10W 1% CHIP	A 5
R239	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	A 5
R240		OPEN	F 9
R241		OPEN	F 9
R242	A11368-47R51		E 9
R243	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 9
R244	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 9
R245	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F8
R246	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	E 9
51	127059-1	SWITCH, SPST 6 MM SMT	A 2
TP1	127064-1	TEST POINT, SMT 1206	A Z
TP2	127064-1	TEST POINT, SMT 1206	A 7
ТРЗ	127064-1	TEST POINT, SMT 1206	E 4
TP4	127064-1	TEST POINT, SMT 1206	E 10
TP5	127064-1	TEST POINT, SMT 1206	C 5
U2	126357-1	IC, 1M X 16 SDRAM	D 6
UЗ	126360-1	IC, 49FCT3805 BUFFER/CLK DRVR	A 7
U5	126358-1	IC, Б4К X 16 SRAM	СБ
U6	126358-1	IC, 64K X 16 SRAM	C 7
U7	126357-1	IC, 1M X 16 SDRAM	D 7
UB	126377-1	IC, DS1834A5	A 3
U9	127073-1	IC, MACH4LV-64/32-15VC	E 9
U11	127073-1	IC, MACH4LV-64/32-15VC	E 5
U12	126361-1	IC. 74LCX573	В 3
U13	126361-1	IC, 74LCX573	C Z
U1 4	126361-1	IC, 74LCX573	СЭ
U15	126361-1	IC, 74LCX573	C 2
U16	126361-1	IC, 74LCX573	СЗ
U17	126361-1	IC, 74LCX573	B 2
U18	126361-1	IC. 74LCX573	B 2
U19	126361-1	IC, 74LCX573	В 3
U20	126361-1	IC, 74LCX573	В 3
U21	126361-1	IC, 74LCX573	B 2
U22	126361-1	IC, 74LCX573	В 3
U23	127073-1	IC, MACH4LV-64/32-15VC	D 2
U24	127072-1	IC, MACH4LV-64/32-10VC	B 6
U25	126359-1	IC, 21065 SHARC DSP 3.3V	D 9
U26	126359-1	IC, 21065 SHARC DSP 3.3V	D 4
U27	126359-1	IC, 21065 SHARC DSP 3.3V	B 9
U28	126359-1	IC, 21065 SHARC DSP 3.3V	B 4
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PEE DEC	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
J29	126363-1	IC, MAX767	E 3
U30	127073-1	IC, MACH4LV-64/32-15VC	A 6
<u>V30</u> Y1	127083-1	CRYSTAL, 30 MHZ	B 7
	126743-4	PWB, USMB10 DSP SHARC	
	120743-4	FWD, USMOTO DEF SHARE	
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HE BASIS FO	DR THE MANUFACTURE	DR SALE PERMISSION. PROJ. MD404D0 128	3047-4



PWA #128047-4 Component Map (Component Side)

PWA #128049-1

Input Module PWB #126689-3 Schematic #126688 Rev. A

REE DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
C1		0.1 MF 50V 10% 0805	K 4
C2	C10359-5	1. UF 16V 20% TANTALUM SMT	К 4
C3		0.1 MF 50V 10% 0805	15
C4	C10359-5	1. UF 16V 20% TANTALUM SMT	Н 5
<u>C</u> 5		0.1 MF 50V 10% 0805	Н 5
C6		0.1 MF 50V 10% 0805	H 4
C7	C10359-5	1. UF 16V 20% TANTALUM SMT	H 4
CB		0.1 MF 50V 10% 0805	G 5
C9	C10359-5	1. UF 16V 20% TANTALUM SMT	G 5
C10		0.1 MF 50V 10% 0805	G 5
C11		0.1 MF 50V 10% 0805	G 5
C12		0.1 MF 50V 10% 0805	G 6
C13		0.1 MF 50V 10% 0805	E 6
C14		0.1 MF 50V 10% 0805	E 6
C15		0.1 MF 50V 10% 0805	F 5
C16		0.1 MF 50V 10% 0805	F 6
C17		0.1 MF 50V 10% 0805	F 5
C18		0.1 MF 50V 10% 0805	F 6
C19		0.1 MF 50V 10% 0805	E 4
C20	C10359-5	1. UF 16V 20% TANTALUM SMT	E 4
C21		0.1 MF 50V 10% 0805	F 5
C22	C10359-5	1. UF 16V 20% TANTALUM SMT	F 5
C23		0.1 MF 50V 10% 0805	F 5
C24		0.1 MF 50V 10% 0805	B 4
C25	C10359-5	1. UF 15V 20% TANTALUM SMT	C 4
C26		0.1 MF 50V 10% 0805	F 5
C27	C10359-5	1. UF 16V 20% TANTALUM SMT	E 5
C28		0.1 MF 50V 10% 0805	E 5
C29		0.001UF 50V 5% NPO MLC 0805 T/	G 6
C30		0.001UF 50V 5% NPO MLC 0805 T/	E 6
C31		0.001UF 50V 5% NPO MLC 0805 T/	F 6
C32		0.1 MF 50V 10% 0805	НБ
C33		0.001UF 50V 5% NPO MLC 0805 T/	Нб
C34	C10391-8	10 UF 16V 20% TANT	EG
C35		0.001UF 50V 5% NPO MLC 0805 T/	<u> </u>
C36	and the second	0.001UF 50V 5% NPO MLC 0805 T/	Н 5
C37		0.001UF 50V 5% NPO MLC 0805 T/	G 5
C38	and the second	0.001UF 50V 5% NPO MLC 0805 T/	F 5
C39	C10391-8	10 UF 16V 20% TANT	НБ
C40	C10391-B	10 UF 16V 20% TANT	I 5
C40	C10391-8	10 UF 16V 20% TANT	<u> </u>
C42	C10391-8	10 UF 16V 20% TANT	E 5
C42	A11427-104K2	0.1 MF 50V 10% 0805	К 4
C44	A11427-104K2	0.1 MF 50V 10% 0805	H 4
C44	A11427-104K2	0.1 MF 50V 10% 0805	E 4
C45	A11427-104K2		B 4
C55	A11369-102J2		E 6
	111000 10202		
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	C.P.N.	DESCRIPTION	MAP LOC.
<u>C56</u>		0.001UF 50V 5% NPO MLC 0805 T/	E 6
<u>C100</u>		220PF 200V 10% NPO 0805	<u>K 1</u>
C101	· · · · · · · · · · · · · · · · · · ·	220PF 200V 10% NPO 0805	
C102	and the second se	1500PF 50V 5% NPO MLC 0805 T/R	<u>к 1</u>
C103		1500PF 50V 5% NPO MLC 0805 T/R	
C104	126475-1	CAP, 47 MF 35V ELECT SMD	<u>K 1</u>
C105	126475-1	CAP, 47 MF 35V ELECT SMD	K 1
C106		0.001UF 50V 5% NPO MLC 0805 T/	К 2
<u>C107</u>	· · · · · · · · · · · · · · · · · · ·	0.001UF 50V 5% NPO MLC 0805 T/	
C108	126475-1	CAP, 47 MF 35V ELECT SMD	
C109	126475-1	CAP, 47 MF 35V ELECT SMD	КЗ
C110		220PF 200V 10% NPO 0805	КЗ
<u>C111</u>	126476-1	CAP, 470 MF 6.3V ELECT SMD	L 3
C112		220PF 200V 10% NPO 0805	
C113		CAP, 47PF 200V 5% NPO 0805	КЗ
C114		CAP, 47PF 200V 5% NPO 0805	К 4
C115	126475-1	CAP, 47 MF 35V ELECT SMD	
C116		220PF 200V 10% NPO 0805	K 4
<u>C117</u>		22PF 50V 5% NPO/COG CHIP 0805	<u>K 4</u>
C118		1500PF 50V 5% NPO MLC 0805 T/R	H 5
C119		0.1 MF 50V 10% 0805	<u>K 4</u>
C120		0.1 MF 50V 10% 0805	<u>K 4</u>
C121		0.1 MF 50V 10% 0805	
C200	- Internet in the second s	220PF 200V 10% NPO 0805	J 1
C201	1	220PF 200V 10% NPO 0805	
C202		1500PF 50V 5% NPO MLC 0805 T/R	J 1
C203		1500PF 50V 5% NPO MLC 0805 T/R	J 1 J 1
C204	126475-1	CAP, 47 MF 35V ELECT SMD	
C205	126475-1	CAP, 47 MF 35V ELECT SMD	
C206		0.001UF 50V 5% NPO MLC 0805 T/	J Z J Z
C207	· · · · · · · · · · · · · · · · · · ·	0.001UF 50V 5% NPO MLC 0805 T/	
C208	126475-1	CAP, 47 MF 35V ELECT SMD	К 3
C209	126475-1	CAP, 47 MF 35V ELECT SMD	J 3
C210		220PF 200V 10% NPO 0805	J 3 3
C211	126476-1	CAP, 470 MF 6.3V ELECT SMD	J 4
C212		220PF 200V 10% NPO 0805	КЗ
C213		CAP, 47PF 200V 5% NPO 0805	
C214		CAP. 47PF 200V 5% NPO 0805	<u>K 4</u>
C215	126475-1	CAP, 47 MF 35V ELECT SMD 220PF 200V 10% NPO 0805	
C216			
C217		22PF 50V 5% NPO/COG CHIP 0805	<u> </u>
C218		1500PF 50V 5% NPO MLC 0805 T/R 0.1 MF 50V 10% 0805	<u>H 5</u> J 2
C221			<u> </u>
C300		220PF 200V 10% NPO 0805	
C301		220PF 200V 10% NPD 0805	
C302		1500PF 50V 5% NPO MLC 0805 T/R	H 1
C303	A11303-152JZ	1500PF 50V 5% NPO MLC 0805 T/R	<u> </u>
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		PARTS LIST	
REF DES	· · · · · · ·	DESCRIPTION	MAP LOC.
C304	126475-1	CAP, 47 MF 35V ELECT SMD	<u> </u>
C305	126475-1	CAP, 47 MF 35V ELECT SMD	I 1
C306		0.001UF 50V 5% NPO MLC 0805 T/	H 2
C307		0.001UF 50V 5% NPO MLC 0805 T/	<u> </u>
C308	126475-1	CAP, 47 MF 35V ELECT SMD	<u> </u>
C309	126475-1	CAP, 47 MF 35V ELECT SMD	<u> </u>
C310	· · · · · · · · · · · · · · · · · · ·	220PF 200V 10% NPD 0805	<u> </u>
C311	126476-1	CAP, 470 MF 6.3V ELECT SMD	<u> </u>
C312		220PF 200V 10% NPO 0805	<u>I 4</u>
C313		CAP, 47PF 200V 5% NPO 0805	<u> НЗ</u>
C314		CAP, 47PF 200V 5% NPO 0805	<u> </u>
C315	126475-1	CAP, 47 MF 35V ELECT SMD	<u> </u>
C316		220PF 200V 10% NPO 0805	<u>H 4</u>
C317		22PF 50V 5% NPO/COG CHIP 0805	<u>H 4</u>
C318		1500PF 50V 5% NPO MLC 0805 T/R	<u> </u>
C319		0.1 MF 50V 10% 0805	<u>H 4</u>
C320		0.1 MF 50V 10% 0805	<u>H 4</u>
C321		0.1 MF 50V 10% 0805	I Z
C400		220PF 200V 10% NPO 0805	G 1
C401		220PF 200V 10% NPO 0805	G 1
C402		1500PF 50V 5% NPO MLC 0805 T/R	G 1
C403		1500PF 50V 5% NPO MLC 0805 T/R	G 1
C404	126475-1	CAP, 47 MF 35V ELECT SMD	G 1
C405	126475-1	CAP, 47 MF 35V ELECT SMD	G 1
C406	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	G 2
C407	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	G 2
C408	126475-1	CAP, 47 MF 35V ELECT SMD	нз
C409	126475-1	CAP, 47 MF 35V ELECT SMD	G 3
C410	102438-221K2	220PF 200V 10% NPO 0805	НЗ
C411	126476-1	CAP, 470 MF 6.3V ELECT SMD	G 4
C412	102438-221K2	220PF 200V 10% NPO 0805	H 4
C413	102438-470J2	CAP, 47PF 200V 5% NPO 0805	НЗ
C414	102438-470J2	CAP, 47PF 200V 5% NPO 0805	H 4
C415	126475-1	CAP, 47 MF 35V ELECT SMD	G 4
C416	102438-221K2	220PF 200V 10% NPO 0805	H 4
C417	A11369-220J2	22PF 50V 5% NPO/COG CHIP 0805	H 4
C418	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	G 4
C421	A11427-104K2	0.1 MF 50V 10% 0805	H 2
C500		220PF 200V 10% NPD 0805	F 1
C501		220PF 200V 10% NPO 0805	F 1
C502		1500PF 50V 5% NPO MLC 0805 T/R	F 1
C503		1500PF 50V 5% NPO MLC 0805 T/R	F 1
C504	126475-1	CAP, 47 MF 35V ELECT SMD	F 1
C505	126475-1	CAP, 47 MF 35V ELECT SMD	F 1
C506	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	F 2
C507	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	F 2
C508	126475-1	CAP, 47 MF 35V ELECT SMD	F 3
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E DRAWINGS	ND SPECIFICATIONS ARE N INTERNATIONAL, INC.	THE THE THIS WEST MISHAWAKA ROAD ELKHART, INDIANA 465	
L NOT BE MER	N INTERNATIONAL, INC. RODUCED, COPIED, OR (THE MANUFACTURE OR S DEVICES WITHOUT PERM	JSED DRAWN JFL 7/19/99 DWG. ND.	SHEET 8 OF 20
	DEVICES WITHOUT PERM	SSION. PROJ. MD404D0 128	049-1

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REF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
C509	126475-1	CAP, 47 MF 35V ELECT SMD	F 3
C510		220PF 200V 10% NPO 0805	F 3
C511	126476-1	CAP, 470 MF 6.3V ELECT SMD	G 3
C512		220PF 200V 10% NPO 0805	F 4
C513		CAP, 47PF 200V 5% NPO 0805	E3
C514		CAP, 47PF 200V 5% NPO 0805	F 4
C515	126475-1	CAP, 47 MF 35V ELECT SMD	F 4
C516		220PF 200V 10% NPO 0805	F 4
C517		22PF 50V 5% NPO/COG CHIP 0805	F 4
C518	···	1500PF 50V 5% NPO MLC 0805 T/R	F 4
C519		0.1 MF 50V 10% 0805	E 4
C520		0.1 MF 50V 10% 0805	E 4
C521		0.1 MF 50V 10% 0805	F 2
C600		220PF 200V 10% NPO 0805	D 1
C601		220PF 200V 10% NPO 0805	E 1
C602		1500PF 50V 5% NPO MLC 0805 T/R	D 1
C603		1500PF 50V 5% NPO MLC 0805 T/R	E 1
C604	126475-1	CAP, 47 MF 35V ELECT SMD	D 1
C605	126475-1	CAP, 47 MF 35V ELECT SMD	D 1
C606 C607		0.001UF 50V 5% NPO MLC 0805 T/	D 2
	· · · · · · · · · · · · · · · · · · ·	0.001UF 50V 5% NPO MLC 0805 T/	<u>E 2</u>
C608	126475-1	CAP, 47 MF 35V ELECT SMD	E3
C609	126475-1	CAP, 47 MF 35V ELECT SMD	D 3
C610		220PF 200V 10% NPO 0805	E3
C611	126476-1	CAP, 470 MF 6.3V ELECT SMD	D 4
C612		220PF 200V 10% NPD 0805	<u> </u>
C613		CAP, 47PF 200V 5% NPO 0805	E3
C614		CAP, 47PF 200V 5% NPO 0805	E 4
C615	126475-1	CAP, 47 MF 35V ELECT SMD	E 4
C616		220PF 200V 10% NPO 0805	E 4
C617		22PF 50V 5% NPO/COG CHIP 0805	E 4
C618		1500PF 50V 5% NPO MLC 0805 T/R	F 4
C621		0.1 MF 50V 10% 0805	E 2
C700		220PF 200V 10% NPO 0805	<u>C 1</u>
C701	102438-221K2	220PF 200V 10% NPO 0805	<u>C 1</u>
C702		1500PF 50V 5% NPO MLC 0805 T/R	C 1
C7Ø3		1500PF 50V 5% NPO MLC 0805 T/R	C 1
C704	126475-1	CAP, 47 MF 35V ELECT SMD	<u>C 1</u>
C705	126475-1	CAP, 47 MF 35V ELECT SMD	C 1
C706	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	C 2
C707	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	C 2
C708	126475-1	CAP, 47 MF 35V ELECT SMD	DЭ
C709	126475-1	CAP, 47 MF 35V ELECT SMD	СЗ
C710	102438-221K2	220PF 200V 10% NPO 0805	СЗ
C711	126476-1	CAP, 470 MF 6.3V ELECT SMD	DЗ
C712	102438-221K2	220PF 200V 10% NPD 0805	C 4
C713	102438-470J2		СЗ
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		CROWN INTERNATION	
EDRAWINGS	AND SPECIFICATIONS AR OWN INTERNATIONAL, INC EPRODUCED, COPIED, OR OR THE MANUFACTURE OR R DEVICES WITHOUT PERM	THE THE DE LINE AND	PHONE (219) 294-
CRIT OF CR	UWN INTERNATIONAL, INC	DRAWN JFL 7/19/99 DWG. NO.	SHEET 9 OF 20

	` 			RTS I	_151				
REF DES	C. P. N.	DESCRIPT	ION					MAP LOC	
C714	102438-470J2	· · · · · · · · · · · · · · · ·						C 4	
C715	126475-1	CAP, 47	MF 35V	ELEC	T SMD			C 4	
C716	102438-221K2							<u>C 4</u>	
C717	A11369-220J2							C 4	
C718	A11369-152J2					T/R		E 5	
C719	A11427-104K2	· · · · · · · · · · · · · · · · · · ·						C 4	
C720	A11427-104K2							<u>B4</u>	
C721	A11427-104K2				the second s	<u></u>		<u>C 2</u>	
C800	102438-221K2							<u>A 1</u>	
C801	102438-221K2							B 1	
C802	A11369-152J2							<u>A 1</u>	
C803	A11369-152J2					T/R		<u>B 1</u>	
C804	126475-1	CAP, 47						A 1	
C805	126475-1	CAP, 47			<u></u>			B 1	
C806	A11369-102J2							A 2	
C807	A11369-102J2					5 T/		B 2	
C808	126475-1	CAP, 47						B 3	
C809	126475-1	CAP, 47						83	
C810	102438-221K2							ВЗ	
CB11	126476-1	CAP, 470	MF 6.3	<u> 3V EL</u>	ECT SMD			A 3	
C812	102438-221K2							В 4	
C813	102438-470J2	CAP, 47F	PF 200V	5% N	PO 0805			В 3	
CB14	102438-470J2							В 4	
C815	126475-1	CAP, 47	MF 35V	ELEC	TSMD			В 4	
C816	102438-221K2	220PF 20	0V 10%	NPO	0805			<u>B4</u>	
CB17	A11369-220J2	22PF 50\	/ 5% NP(D/COG	CHIP 0	305		B 4	
C818	A11369-152J2	1500PF 5	0V 5% N	NPO M	LC 0805	T/R		E 5	
C821	A11427-104K2	0.1 MF 5	0V 10%	0805				B 2	
C900	A11369-102J2	0.001UF	50V 5%	NPO	MLC 080	5 T/		D 6	
C901	A11369-102J2							D 6	
C902	127075-1	CAP, 100	UF/16V	. 20%	. LOW E	SR, ALUM SI	MT	<u> </u>	
C903	127074-1					ESR, ALUM S	БМТ	D 5	
C904	A11369-102J2							C 6	
C905	127074-1					ESR, ALUM	БМТ	B 6	_
C906	A11427-104K2							<u> </u>	
C907	A11369-102J2	0.001UF	50V 5%	NPO	MLC 080	5 T/		D 5	
C908	127075-1	CAP, 100	0UF/16V	. 20%	. LOW E	SR. ALUM SI	ИТ	B 5	
C909	A11427-104K2							C 5	
C910	127075-1	CAP, 100	UF/16V	, 20%	, LOW E	SR, ALUM SI		A 6	
C911	127075-1				, LOW E	SR, ALUM S	MT	A 5	
C912	A11427-104K2		50V 10%	0805	;			C 5	
C913	126475-1				T SMD			C 5	
C914	A11427-104K2	0.1 MF 5	50V 10%	0805	5			C 5	
C915	126475-1	CAP, 47			T SMD			<u> </u>	
C916	126475-1	CAP, 47	MF 35V	ELEC	T SMD			C 5	
C917	A11369-152J2	1500PF 5	50V 5% I	NPO N	ALC 0805			A 5	
C918	127075-1	CAP, 100	3UF/16V	, 207	, LOW E	SR, ALUM S	MT	A 5	
	I							<u> </u>	
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E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM		1718 WEST		1	LKHART, INDIANA DWG. NO.		HEET 10 DF) 294-80 - 20
L NOT BE RE	PRODUCED, COPIED, OR	USED	DRAWN	JFL	7/19/99		8049		

		PARTS LIST	MAP LOC.
REF DES		DESCRIPTION 0.1 MF 50V 10% 0805	B 5
C919 C920		0.001UF 50V 5% NPO MLC 0805 T/	B 5
C920		0.1 MF 50V 10% 0805	A 5
C922		0.1 MF 50V 10% 0805	A 5
C923	127076-1	CAP, 1UF/50V, CERAMIC, X7R, 10%, SMT2225	A 5
D100	C10067-4	DIODE, 1A 100V SILICON	L 3
D101	C10067-4	DIODE, 1A 100V SILICON	L 3
D101 D102	C10067-4	DIODE, 1A 100V SILICON	
D102	C10067-4	DIODE, 1A 100V SILICON	
D200	C10067-4	DIODE, 1A 100V SILICON	J 3
D200	C10067-4	DIODE, 1A 100V SILICON	J_3
D201 D202	C10067-4	DIODE, 1A 100V SILICON	J_4
D202 D203	C10067-4	DIODE, 1A 100V SILICON	J 4
D203 D300	C10067-4	DIODE, 1A 100V SILICON	
D301 D302	C10067-4		I 4
	C10067-4 C10067-4	DIODE, 1A 100V SILICON	I 4 I 4
D303		DIODE, 1A 100V SILICON	<u> </u>
D400	C10067-4	DIODE, 1A 100V SILICON	<u> </u>
D401	C10067-4	DIODE, 1A 100V SILICON	
D402	C10067-4	DIODE, 1A 100V SILICON	
D403	C10067-4	DIODE, 1A 100V SILICON	<u> </u>
D500	C10067-4	DIODE, 1A 100V SILICON	F 3
D501	C10067-4	DIODE, 1A 100V SILICON	<u>F3</u>
D502	C10067-4	DIODE, 1A 100V SILICON	F 4
D503	C10067-4	DIODE, 1A 100V SILICON	F 4
D600	C10067-4	DIODE, 1A 100V SILICON	D 3
D601	C10067-4	DIODE, 1A 100V SILICON	Е З
D602	C10067-4	DIODE, 1A 100V SILICON	E 4
D603	C10067-4	DIODE, 1A 100V SILICON	D 4
D700	C10067-4	DIODE, 1A 100V SILICON	СЗ
D701	C10067-4	DIODE, 1A 100V SILICON	<u>СЗ</u>
D702	C10067-4	DIODE. 1A 100V SILICON	<u>C 4</u>
D703	C10067-4	DIODE, 1A 100V SILICON	D 4
D800	C10067-4	DIODE, 1A 100V SILICON	В 3
D801	C10067-4	DIODE, 1A 100V SILICON	В 3
D802	C10067-4	DIODE, 1A 100V SILICON	<u> </u>
D803	C10067-4	DIODE, 1A 100V SILICON	<u> </u>
D900	126411-1	DIODE, MBRS340T3	B 5
FB1	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB2	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 6
FB3	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 6
FB4	125846-1	FERRITE BEAD, 0.5A, 6000HMS	Нб
FB5	125846-1	FERRITE BEAD, 0.5A, 6000HMS	I 5
FB6	125846-1	FERRITE BEAD, 0.5A, 6000HMS	H 5
FB7	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 5
FB8	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 5
FB9	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 5
		CROWN INTERNATIO	PHONE (219) 294-BI
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	DRAWN JFL 7/19/99 DWG. NO.	SHEET 11 OF 20

		PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
FB100	125846-1	FERRITE BEAD, 0.5A, 6000HMS	К 1
FB101	125846-1	FERRITE BEAD, 0.5A, 6000HMS	К 1
FB102	125846-1	FERRITE BEAD, 0.5A, 6000HMS	КЗ
FB103	125846-1	FERRITE BEAD, Ø.5A, 6000HMS	L 4
FB200	125846-1	FERRITE BEAD, 0.5A, 6000HMS	J 1
FB201	125846-1	FERRITE BEAD, 0.5A, 6000HMS	J 1
FB202	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB203	125846-1	FERRITE BEAD, 0.5A, 6000HMS	J 4
FB300	125846-1	FERRITE BEAD, 0.5A, 6000HMS	I 1
FB301	125846-1	FERRITE BEAD, 0.5A, 6000HMS	I 1
FB302	125846-1	FERRITE BEAD, 0.5A, 6000HMS	IЗ
FB303	125846-1	FERRITE BEAD, 0.5A, 6000HMS	I 4
FB400	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 1
FB401	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 1
FB402	125846-1	FERRITE BEAD, 0.5A, 6000HMS	НЗ
FB403	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 4
F8500	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 1
FB501	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 1
FB502	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 3
FB503	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 4
FB600	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 1
FB601	125846-1	FERRITE BEAD, 0.5A, 600OHMS	D 1
FB602	125846-1	FERRITE BEAD, 0.5A, 6000HMS	Е З
FB603	125846-1	FERRITE BEAD, 0.5A, 6000HMS	E 4
FB700	125846-1	FERRITE BEAD, 0.5A, 6000HMS	C 1
FB701	125846-1	FERRITE BEAD, 0.5A, 6000HMS	C 1
-B702	125846-1	FERRITE BEAD, 0.5A, 6000HMS	СЗ
FB703	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u>C 4</u>
FB800	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 1
-B801	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u>B 1</u>
-B802	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u>B3</u>
-8803	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u>B4</u>
-B901	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 6
J1	127183-1	HEADER, 26PIN Ø.1 CTRS	G 6
12	127183-1	HEADER, 26PIN 0.1 CTRS	<u> </u>
_100	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	<u>K 2</u>
_101	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	К 2
_200	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	J 2
201	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	J 2
-300	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	H 2
_301	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	I 2
400	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	G 2
-401	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	<u> </u>
-500	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	F 2
<u>-501</u>	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	F 2
-600	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	D 2
_601	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	D 2
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		CROWN INTERNATION	· · · — · · — ·
DRAWINGS A	ND SPECIFICATIONS N INTERNATIONAL, I RODUCED, COPIED, O THE MANUFACTURE O DEVICES WITHOUT PE	ARE THE 1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517 NC. AND DRAWN JEL 7/19/99 DWG. NO.	PHONE (219) 294-80 SHEET 12 OF 20
	BODUCED CODIES	NC. AND DRAWN JFL 7/19/99 DWG. NO.	SHEET 12 OF 20

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		PARTS LIST	· · · · · · · · · · · · · · · · · · ·
REF DES		DESCRIPTION	MAP LOC.
L700	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	C 2
L701	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	C 2
L800	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	A 2
L801	126454-1	INDUCTOR, 270UH +/- 5% SMT 181	B 2
L900	125715-1	INDUCTOR, 53UH 1.87A	<u> </u>
L901	127060-1	INDUCTOR, 220 UH, 290MA, SMT7032	<u> </u>
L902	127060-1	INDUCTOR, 220 UH, 290MA, SMT7032	B 5
L903	127060-1	INDUCTOR, 220 UH, 290MA, SMT7032	C 5
L904	127060-1	INDUCTOR, 220 UH, 290MA, SMT7032	85
P900	127068-1	HEADER, 6POS, Ø.156" TIN	D 5
0100	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	КЗ
0101	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	К 4
0200	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	КЗ
0201	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	J 4
<u>Q300</u>	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	НЗ
Q301	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	I 4
0400	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	<u>нз</u>
0401	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	<u>H 4</u>
0500	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	F 3
0501	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	F 4
Q600	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	E 3
Q601	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	E 4
Q700	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	СЗ
0701	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	C 4
0800	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	В 3
0801	C 9931-4	MMBT5087LT1 PNP XSISTOR SOT-23	B 4
0900	126410-1	PWR FET, MTD20N03HDL	85
<u>R1</u>		1K 0.10W 1% CHIP 0805	K 4
R2	A11371-1501	15 OHM 0.10W 5% CHIP	Н 5
R3	A11368-47R51		<u>H5</u>
R5	A11368-47R51		H 5
R6	1	10K 1/10W 1% CHIP 0805	Н 5
RB		10K 1/10W 1% CHIP 0805	15
R11		10K 1/10W 1% CHIP 0805	15
R12	f	1K 0.10W 1% CHIP 0805	<u>H 4</u>
R13	A11371-1501	15 OHM 0.10W 5% CHIP	<u> </u>
R14		47.5 OHM Ø.10W 1% CHIP	<u> </u>
R17	1	10K 1/10W 1% CHIP 0805	НБ
R19		10K 1/10W 1% CHIP 0805	<u>G 5</u>
R22	A11368-10021	10K 1/10W 1% CHIP 0805	<u>H5</u>
R23	A11368-47R51	47.5 OHM 0.10W 1% CHIP	H 5
R24	A11368-47R51	47.5 OHM 0.10W 1% CHIP	H 5
R25	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R26	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u>G 5</u>
R27	A11368-10021	10K 1/10W 1% CHIP 0805	D 5
R28	A11368-10021	10K 1/10W 1% CHIP 0805	D 5
R29	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
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		CROWN INTERNATION	AL INC
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE OR DEVICES WITHOUT PERM	THE THE DRAWN IF: 7/19/99 DWG, NO. SH	HONE (219) 294-

		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
R30	A11368-10021	10K 1/10W 1% CHIP 0805	H 6
R31	A11368-47R51	47.5 OHM 0.10W 1% CHIP	Н 6
R32	A11368-10021	10K 1/10W 1% CHIP 0805	Н 5
R33	A11368-47R51	47.5 OHM 0.10W 1% CHIP	G 6
R35	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 5
R36	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 5
R37	A11368-47R51	47.5 OHM 0.10W 1% CHIP	[*] F 5
R38	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 5
R39	A11368-10021	10K 1/10W 1% CHIP 0805	F 6
R40	A11368-47R51	47.5 OHM 0.10W 1% CHIP	Н 5
R41	A11368-10021	10K 1/10W 1% CHIP 0805	F 5
R42	A11368-10021	10K 1/10W 1% CHIP 0805	F 6
R44	A11368-47R51	47.5 OHM 0.10W 1% CHIP	* G 5
R45	A11368-47R51	47.5 OHM 0.10W 1% CHIP	G 5
R46	A11368-47R51	47.5 OHM 0.10W 1% CHIP	G 5
R47	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 5
R48	A11368-10021	10K 1/10W 1% CHIP 0805	G 6
R50	A11368-10021	10K 1/10W 1% CHIP 0805	G 5
R51	A11368-10021	10K 1/10W 1% CHIP 0805	G 6
R52	A11368-10011	1K 0.10W 1% CHIP 0805	E 4
R53	A11371-1501	15 OHM 0.10W 5% CHIP	F 5
R54	A11368-47R51	47.5 OHM 0.10W 1% CHIP	F 5
R60	A11368-10021	10K 1/10W 1% CHIP 0805	F 5
R63		10K 1/10W 1% CHIP 0805	G 5
R64	A11368-10011		C 4
R65	A11371-1501	15 OHM 0.10W 5% CHIP	E 5
R66	A11368-47R51		E 5
R70	A11368-47R51		E 5
R72	A11368-10021		F 5
R75	A11368-10021		F 5
R100	A11368-20031		К 1
R101	A11368-20031		L 1
R102	A11368-10021		К 1
R103	A11368-20021		К 2
R104	A11368-20021		К 2
R105	A11368-20011	2K OHM 0.1W 1% CHIP 0805	К 2
R105	A11368-20011	2K OHM 0.1W 1% CHIP 0805	
R107		3.01K 1/10W 1% CHIP 0805	<u> </u>
R107	A11368-30111		КЗ
R109	A11368-20021 A11368-10021	10K 1/10W 1% CHIP 0805	КЗ
R110			
R111	126472-1	POT, 10K AUDIO TAPER R/A PC MN	
R112	A11368-75R01	75 OHM 0.10W 1% CHIP	
R113	A11368-20021	20K 0.10W 1% CHIP 0805	<u> </u>
R114	A11368-10021	10K 1/10W 1% CHIP 0805	К 4
R115	A11368-20021	20K 0.10W 1% CHIP 0805	
R116	A11368-20021	20K 0.10W 1% CHIP 0805	К 4
	I		
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E DHAWINGS	AND SPECIFICATIONS AF WAN INTERNATIONAL, INC PRODUCED, COPIED, OR R THE MANUFACTURE OR DEVICES WITHOUT PERM	LETHE C. AND DRAWN JFL 7/19/99 DWG. NO. 5	HEET 14 OF 20
	B THE MANUEACTURE OR	SALE 128049	ן ר

		PARTS LIST	T
REF DES		DESCRIPTION	MAP LOC.
R117	A11368-20021	20K 0.10W 1% CHIP 0805	<u>K 4</u>
R118	A11368-20011	2K OHM 0.1W 1% CHIP 0805	К 4
R119	A11368-20021		<u>K 4</u>
R120	A11368-20021	20K 0.10W 1% CHIP 0805	<u>K 4</u>
R121	A11371-1511	150 OHM 0.1W 5% CHIP 0805	I 5
R122	A11371-1511	150 OHM 0.1W 5% CHIP 0805	15
R200	A11368-20031		J 1
R201	A11368-20031		J 1
R202	A11368-10021		<u> </u>
R203	A11368-20021		J 2
R204	A11368-20021	20K 0.10W 1% CHIP 0805	J 2
R205	A11368-20011		J Z
R206	A11368-20011		J 2
R207		3.01K 1/10W 1% CHIP 0805	К 4
R208		3.01K 1/10W 1% CHIP 0805	КЗ
R209	A11368-20021		J 4
R210	A11368-10021	10K 1/10W 1% CHIP 0805	КЗ
R211	126472-1	POT, 10K AUDIO TAPER R/A PC MN	J 1
R212	A11368-75RØ1		J3
R213	A11368-20021		J 4
R214		10K 1/10W 1% CHIP 0805	J 4
R215	A11368-20021		КЗ
R216		20K 0.10W 1% CHIP 0805	К 4
R217	A11368-20021	20K 0.10W 1% CHIP 0805	К 4
R218	A11368-20011	2K DHM 0.1W 1% CHIP 0805	К 4
R219	A11368-20021	20K 0.10W 1% CHIP 0805	J 4
R220	A11368-20021	20K 0.10W 1% CHIP 0805	К 4
R221	A11371-1511	150 OHM 0.1W 5% CHIP 0805	<u>H5</u>
R222	A11371-1511	150 OHM 0.1W 5% CHIP 0805	Н 5
R300	A11368-20031	200K 0.10W 1% CHIP	<u>H 1</u>
R301	A11368-20031	200K 0.10W 1% CHIP	<u> </u>
R302	A11368-10021	10K 1/10W 1% CHIP 0805	I 1
R303	A11368-20021		HZ
R304	A11368-20021		I 2
R305	A11368-20011		H 2
R306	A11368-20011		I 2
R307	A11368-30111	3.01K 1/10W 1% CHIP 0805	I 4
R308	A11368-30111	3.01K 1/10W 1% CHIP 0805	НЗ
R3Ø9	A11368-20021	20K 0.10W 1% CHIP 0805	<u> </u>
R310	A11368-10021	10K 1/10W 1% CHIP 0805	НЗ
R311	126472-1	POT, 10K AUDIO TAPER R/A PC MN	I 1
R312	A11368-75RØ1	75 OHM 0.10W 1% CHIP	I 4
R313	A11368-20021	20K 0.10W 1% CHIP 0805	I 4
R314	A11368-10021	10K 1/10W 1% CHIP 0805	I 4
R315	A11368-20021	20K 0.10W 1% CHIP 0805	НЗ
R316	A11368-20021		H 4
R317	A11368-20021	20K 0.10W 1% CHIP 0805	H 4
	- 11 1		
		CROWN INTERNATION	
SE DRAWINGS	AND SPECIFICATIONS AF	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 48517	PHONE (219) 294-6 SHEET 15 OF 20
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APPABATIS P	R DEVICES WITHOUT PERM	SALE 12804	

REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R318		2K OHM 0.1W 1% CHIP 0805	H 4
R319	A11368-20021	20K 0.10W 1% CHIP 0805	I 4
R320		20K 0.10W 1% CHIP 0805	H 4
R321	A11371-1511	150 OHM 0.1W 5% CHIP 0805	Н 5
R322	A11371-1511	150 OHM 0.1W 5% CHIP 0805	H 4
R400	A11368-20031	200K 0.10W 1% CHIP	G 1
R401	A11368-20031	200K 0.10W 1% CHIP	G 1
R402		10K 1/10W 1% CHIP 0805	G 1
R403	A11368-20021	20K 0.10W 1% CHIP 0805	G 2
R404	A11368-20021	20K 0.10W 1% CHIP 0805	G 2
R405	A11368-20011	2K OHM 0.1W 1% CHIP 0805	G 2
R406	A11368-20011	2K OHM 0.1W 1% CHIP 0805	G 2
R407	A11368-30111	3.01K 1/10W 1% CHIP 0805	H 4
R408	A11368-30111	3.01K 1/10W 1% CHIP 0805	НЗ
R409	A11368-20021	20K 0.10W 1% CHIP 0805	G 4
R410	A11368-10021	10K 1/10W 1% CHIP 0805	НЗ
R411	126472-1	POT, 10K AUDIO TAPER R/A PC MN	H 1
R412	A11368-75R01	75 OHM 0.10W 1% CHIP	G 3
R413	A11368-20021	20K 0.10W 1% CHIP 0805	G 4
R414	A11368-10021	10K 1/10W 1% CHIP 0805	H 4
R415	A11368-20021	20K 0.10W 1% CHIP 0805	НЗ
R416	A11368-20021	20K 0.10W 1% CHIP 0805	H 4
R417	A11368-20021	20K 0.10W 1% CHIP 0805	H 4
R418	A11368-20011	2K OHM 0.1W 1% CHIP 0805	H 4
R419		20K 0.10W 1% CHIP 0805	H 4
R420	A11368-20021	20K 0.10W 1% CHIP 0805	H 4
R421	A11371-1511	150 OHM 0.1W 5% CHIP 0805	G 4
R422	A11371-1511	150 OHM 0.1W 5% CHIP 0805	G 4
R500	A11368-20031	200K 0.10W 1% CHIP	F 1
R501	A11368-20031	200K 0.10W 1% CHIP	F 1
R502	<u> </u>	10K 1/10W 1% CHIP 0805	F 1
R503		20K 0.10W 1% CHIP 0805	F 2
R504		20K 0.10W 1% CHIP 0805	F 2
R505		2K OHM 0.1W 1% CHIP 0805	F 2
R506		2K OHM 0.1W 1% CHIP 0805	F 2
R507		3.01K 1/10W 1% CHIP 0805	F 4
R508		3.01K 1/10W 1% CHIP 0805	E 3
R509		20K 0.10W 1% CHIP 0805	F 4
R510		10K 1/10W 1% CHIP 0805	F 3
R511	126472-1	POT, 10K AUDIO TAPER R/A PC MN	F 1
R512	A11368-75R01	75 OHM 0.10W 1% CHIP	G 4
R513	A11368-20021	20K 0.10W 1% CHIP 0805	F 4
R514	A11368-10021	10K 1/10W 1% CHIP 0805	F 4
R515		20K 0.10W 1% CHIP 0805	E 3
R516		20K 0.10W 1% CHIP 0805	F 4
R517	A11368-20021	20K 0.10W 1% CHIP 0805	F 4
R518	A11368-20011	2K OHM 0.1W 1% CHIP 0805	F 4
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EE DEC		PARTS LIST	MAP LOC.	
REF DES			F 4	
R520	Bis A11368-20021 20K 0.10W 1X CHIP 0005 F 4 20 A11368-20021 20K 0.10W 1X CHIP 0005 F 4 21 A11371-1511 150 DHM 0.1W 5X CHIP 0005 F 4 22 A11371-1511 150 DHM 0.1W 5X CHIP 0005 F 4 22 A11368-20031 200K 0.10W 1X CHIP D1 10 A11368-20031 200K 0.10W 1X CHIP D1 02 A11368-20021 20K 0.10W 1X CHIP 0005 D2 04 A11368-20021 20K 0.10W 1X CHIP 0005 D2 05 A11368-20011 2K 0HM 0.1W 1X CHIP 0005 D2 06 A11368-20011 2K 0HM 0.1W 1X CHIP 0005 E 07 A11368-30111 3.01K 1/10W 1X CHIP 0005 E 08 A11368-30111 3.01K 1/10W 1X CHIP 0005 E 110 A11368-20021 20K 0.10W 1X CHIP 0005 E 124 A11368-20021 20K 0.10W 1X CHIP 0005 E 131 A11368-20021 20K 0.10W 1X CHIP 0005 E 131 A11368-20021 20K 0.10W 1X CHIP 0005 E 131 A11368-20021 20K 0.10W 1X CHIP 0005			
R521			F 4	
R522			F 4	
R600			D 1	
R601			E 1	
R602	A11368-10021	10K 1/10W 1% CHIP 0805	D 1	
R603			D 2	
R604	A11368-20021	20K 0.10W 1% CHIP 0805	D 2	
R605	A11368-20011			
R606				
R607				
R608			and the second	
R609				
R610				
R611			D 3	
R612			D 4	
R614			E 4	
R615			Е З	
R616			E 4	
R617			E 4	
R618	A11368-20011	2K DHM 0.1W 1% CHIP 0805	E 4	
R619	A11368-20021	20K 0.10W 1% CHIP 0805	E 4	
R620	A11368-20021	20K 0.10W 1% CHIP 0805	<u>E 4</u>	
R621	A11371-1511			
R622				
R700				
R701	and the second s			
R702				
R703			C 2	
			C 2	
R706			C 2	
R707			C 4	
R708			С 3	
R709			C 4	
R710	A11368-10021	10K 1/10W 1% CHIP 0805	СЗ	
R711	126472-1		<u> </u>	
R712	A11368-75R01		D 4	
R713				
R714	and the second sec			
R715				
R716				
R717				
R718				
R719	A11368-20021	20K 0.10W 16 LATE 0000		
		CROWN INTERNATION	NAL INC	
	AND SPECIFICATIONS AND OWN INTERNATIONAL, IN EPRODUCED, OR DR THE MANUFACTURE OR R DEVICES WITHOUT PERI	1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8	
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		PARTS LIST	
	C.P.N.	DESCRIPTION	MAP LOC.
R720		20K 0.10W 1% CHIP 0805	
R721	A11371-1511	150 OHM 0.1W 5% CHIP 0805	F 5
R722	A11371-1511	150 OHM 0.1W 5% CHIP 0805	<u>E 4</u>
R800		200K 0.10W 1% CHIP	<u>A 1</u>
R801	A11368-20031		<u>B 1</u>
R802		10K 1/10W 1% CHIP 0805	<u>B 1</u>
R803	A11368-20021		A 2
R804		20K 0.10W 1% CHIP 0805	<u>B 2</u>
R805		2K OHM 0.1W 1% CHIP 0805	<u>A 2</u>
R806		2K OHM 0.1W 1% CHIP 0805	B 2
R807		3.01K 1/10W 1% CHIP 0805	<u>B 4</u>
R808		3.01K 1/10W 1% CHIP 0805	ВЗ
R809		20K 0.10W 1% CHIP 0805	<u>B4</u>
R810	A11368-10021	10K 1/10W 1% CHIP 0805	ВЗ
RB11	126472-1	POT, 10K AUDIO TAPER R/A PC MN	B 1
RB12	A11368-75RØ1	75 OHM 0.10W 1% CHIP	A 4
R813	A11368-20021	20K 0.10W 1% CHIP 0805	B 4
R814	A11368-10021	10K 1/10W 1% CHIP 0805	B 4
R815		20K 0.10W 1% CHIP 0805	В 3
RB16		20K 0.10W 1% CHIP 0805	B 4
R817	A11368-20021	20K 0.10W 1% CHIP 0805	B 4
R818	A11368-20011	2K OHM 0.1W 1% CHIP 0805	B 4
R819	A11368-20021	20K 0.10W 1% CHIP 0805	B 4
R820	A11368-20021	20K 0.10W 1% CHIP 0805	B 4
R821	A11371-1511	150 OHM 0.1W 5% CHIP 0805	E 5
R822	A11371-1511	150 OHM 0.1W 5% CHIP 0805	E 5
R900	A11368-10521	10.5K OHM 0.10W 1% CHIP 0805	АБ
R901	A11368-10011	1K 0.10W 1% CHIP 0805	A 6
R902	A11368-10521	10.5K OHM 0.10W 1% CHIP 0805	A 5
R903	A11368-10011	1K 0.10W 1% CHIP 0805	АБ
R904	A11368-20031	200K 0.10W 1% CHIP	A 5
R905	127080-1	RES, 0.787 OHM, 0.25W, 1%, SMT1206	A 4
R906		OPEN	A 5
R907	A11368-61931	619KOHM .1W 1% 0805 T/R	A 5
R908	A11368-10021	10K 1/10W 1% CHIP 0805	A 4
R909	A11368-20021	20K 0.10W 1% CHIP 0805	A 5
R912	A11368-10021	10K 1/10W 1% CHIP 0805	C 5
5W100	126645-1	SWITCH, 2P3T SLIDE	L 1
5W200	126645-1	SWITCH, 2P3T SLIDE	J 1
5W300	126645-1	SWITCH, 2P3T SLIDE	I 1
SW400	126645-1	SWITCH, 2P3T SLIDE	H 1
SW500	126645-1	SWITCH, 2P3T SLIDE	F 1
SW600	126645-1	SWITCH, 2P3T SLIDE	E 1
5W700	126645-1	SWITCH, 2P3T SLIDE	C 1
5W800	126645-1	SWITCH, 2P3T SLIDE	B 1
T100		OPEN	L 3
T200		OPEN	J 3
			1
			1
	1		1
	1		
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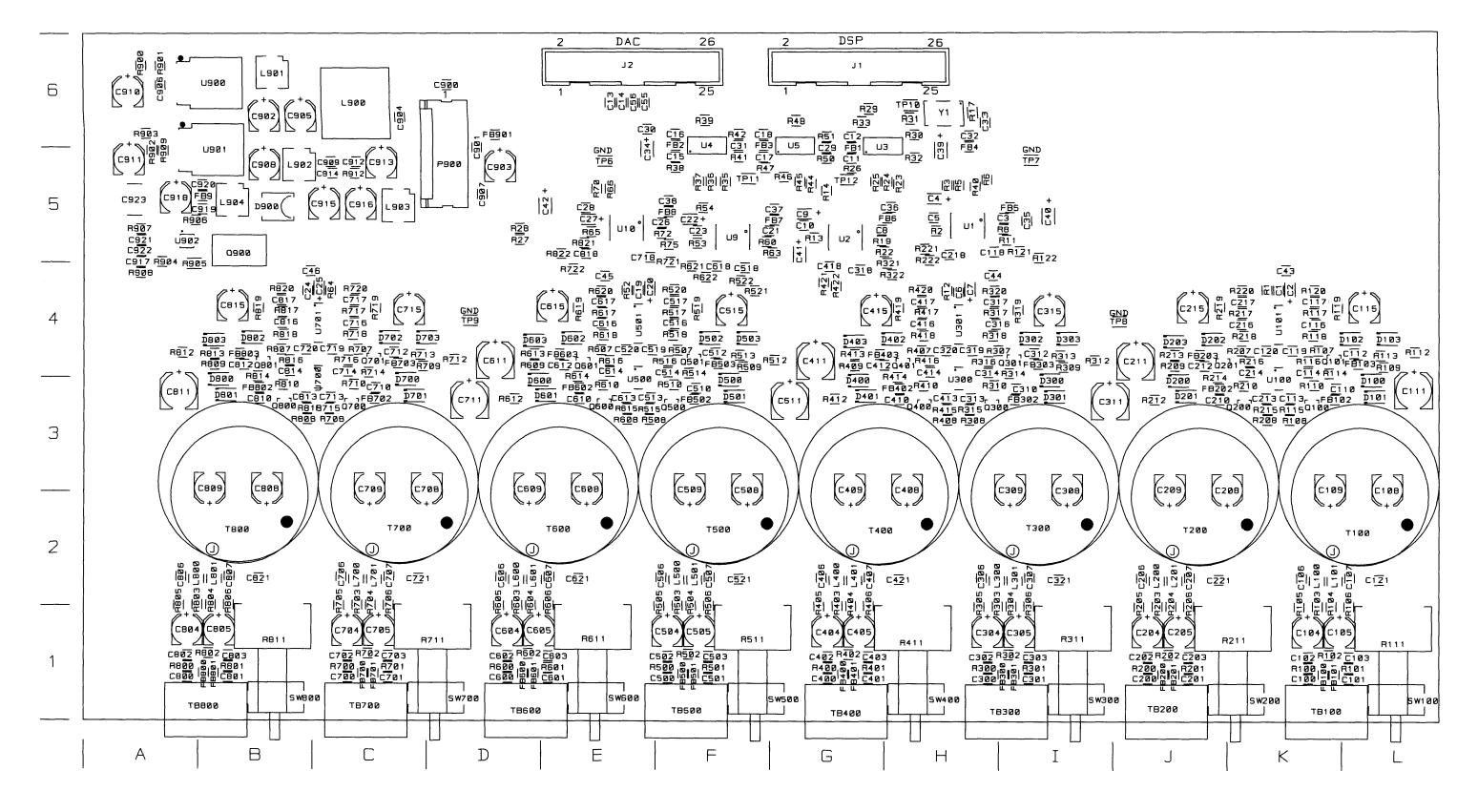
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		PARTS LIST							
REF DES	C.P.N.	DESCRIPTION	MAP LOC.						
T300		OPEN	<u> </u>						
T400	· _ · _ · _ · _ · _ · _ · _ · _	OPEN	<u> </u>						
T500									
T600									
T700									
T800	· · · · · · · · · · · · · · · · ·		the second se						
TB100									
TB200									
TB300									
TB400									
TB500									
TB600	DPEN B 3 000 C 9676-5 TB3 R/A K 1 200 C 9676-5 TB3 R/A J 1 200 C 9676-5 TB3 R/A H 1 200 C 9676-5 TB3 R/A H 1 200 C 9676-5 TB3 R/A G 1 200 C 9676-5 TB3 R/A G 1 200 C 9676-5 TB3 R/A D 1 200 C 9676-5 TB3 R/A D 1 200 C 9676-5 TB3 R/A C 1 200 C 9676-5 TB3 R/A C 1 200 C 9676-5 TB3 R/A C 1 200 C 9676-1 TEST POINT, SMT 1206 E 5 21 27064-1 TEST POINT, SMT 1206 J 4 4 127064-1 TEST POINT, SMT 1206 F 5 7 127064-1 TEST POINT, SMT 1206 F 5 125630-1 ADC, 2481T C55360-KS 20 SSOP H 5 125630-1 ADC, 2481T C55360-KS 20 SSOP G 5 126509-1								
TB700									
TB800									
TP1	BB OPEN E 3 BB OPEN C 3 BB OPEN B 3 180 C 9676-5 TB3 R/A K 1 200 C 9676-5 TB3 R/A J 1 200 C 9676-5 TB3 R/A J 1 200 C 9676-5 TB3 R/A J 1 200 C 9676-5 TB3 R/A G 1 400 C 9676-5 TB3 R/A G 1 500 C 9676-5 TB3 R/A D 1 700 C 9676-5 TB3 R/A C 1 800 C 9676-1 TEST POINT. SMT 1206 E 5 2 127064-1 TEST POINT. SMT 1206 J 4 127064-1 TEST POINT. SMT 1206 G 5 126509-1 IC. 49FCT805 BUFFER/CLK DRVR G 6 126509-1 IC. 49FCT805 BUFFER/CLK DRVR G 6								
TP2									
ТРЗ			······································						
TP4			and the second						
TP5			and the second se						
TP6									
TP7									
U1									
U2			and a second						
U3									
U4									
U5									
U9									
U10									
U100			and the second						
U101			74 1 MV OFFET QUAD OPAMP K 4 078D DUAL LO NOISE OP AMP H 4						
U300			78D DUAL LO NOISE OP AMP K 4 74 1MV OFFET QUAD OPAMP K 4 78D DUAL LO NOISE OP AMP H 4						
U301			OINT. SMT 1206 H 6 OINT. SMT 1206 F 5 OINT. SMT 1206 G 5 4BIT CS5360-KS 20 SSOP H 5 4BIT CS5360-KS 20 SSOP G 5 FCT805 BUFFER/CLK DRVR G 6 FCT805 BUFFER/CLK DRVR F 6 FCT805 BUFFER/CLK DRVR G 6 4BIT CS5360-KS 20 SSOP F 5 4BIT CS5360-KS 20 SSOP E 5 8D DUAL LO NOISE OP AMP K 4 4 1MV OFFET QUAD OPAMP K 4 4 1MV OFFET QUAD OPAMP E 4 8D DUAL LO NOISE OP AMP E 4 4 1MV OFFET QUAD OPAMP E 4 8D DUAL LO NOISE OP AMP C 4 4 1MV OFFET QUAD OPAMP C 4 4 1MV OFFET QUAD OPAMP C 4 2941 LO NOISE OP AMP C 4 42941 LDO REG, POS ADJ TO-263 B 6 2991 LDO REG, NEG ADJ TO-263 B 5 X668 PWR CTL SMT A 5 ATOR, 12.288MHZ, 5V SMT H 6						
U500	1								
U501									
U700									
U701									
U900									
U901									
U902									
Y1			the second s						
1	126689-3	PWB, USMB10 INPUT	нь						
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	AND SPECIFICATIONS OWN INTERNATIONAL. PRODUCED. COPIED. RT THE MANUFACTURE DEVICES WITHOUT P	1710 WEST MICHAWARA DOAD EL KHART INDIANA 48512	PHONE (219) 294-8						
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PWA #128049-1 Component Map (Component Side)

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PWA #128051-3

Output Module PWB #126692-4 Schematic #126691 Rev. C

EF DES	ГРМ	DESCRIPTION	MAP LOC.
	127074-1	CAP, 220UF/6.3V, 20%, LOW ESR, ALUM SMT	A 3
22	the second se	0.1 MF 50V 10% 0805	B 4
C3		0.001UF 50V 5% NPO MLC 0805 T/	A 4
C4		0.001UF 50V 5% NPO MLC 0805 T/	B 4
C5	C10391-B	10 UF 16V 20% TANT	C 4
C6		0.1 MF 50V 10% 0805	A 4
C7		0.1 MF 50V 10% 0805	83
CB		0.1 MF 50V 10% 0805	D 4
C9	127075-1	CAP, 100UF/16V, 20%, LOW ESR, ALUM SMT	83
C10	the second s	0.1 MF 50V 10% 0805	E 4
C11	127075-1	CAP, 100UF/16V, 20%, LOW ESR, ALUM SMT	ВЗ
C12		0.1 MF 50V 10% 0805	D 4
C12	C10391-8	10 UF 16V 20% TANT	F 4
C14		0.1 MF 50V 10% 0805	F 4
C15		1. UF 16V 20% TANTALUM SMT	F 4
C16		0.1 MF 50V 10% 0805	G 4
C18 C17	the second s	0.001UF 50V 5% NPO MLC 0805 T/	H 4
C18		0.001UF 50V 5% NPO MLC 0805 T/	Н 4
C19		220PF 200V 10% NPO 0805	Н 4
C20		220PF 200V 10% NPO 0805	Н 4
C21	the second se	220FF 200V 10% NPO/COG CHIP 0805	I 4
C22		0.001UF 50V 5% NPO MLC 0805 T/	G 4
		0.001UF 50V 5% NPO MLC 0805 T/	<u> </u>
C23	the second data and the second	220PF 200V 10% NPO 0805	G 4
C24		220PF 200V 10% NPO 0805	<u> </u>
C25	the second s	220FF 50V 5% NPO/COG CHIP 0805	H 4
C26		100PF 200V 10% NPO 0805	H 4
C27 C28		CAP, 47 MF 35V ELECT SMD	IЗ
	126475-1	100PF 200V 10% NPO 0805	I 4
C29 C3Ø	the second s	CAP, 47 MF 35V ELECT SMD	 I 3
	+	100PF 200V 10% NPO 0805	G 4
<u>C31</u>		CAP, 47 MF 35V ELECT SMD	I 2
<u>C32</u>	126475-1	100PF 200V 10% NPO 0805	H 4
<u>C33</u>		CAP, 47 MF 35V ELECT SMD	ІЗ
C34	126475-1	1500PF 50V 5% NPO MLC 0805 T/R	н 1
<u>C35</u>	the second se	1500PF 50V 5% NPO MLC 0805 T/R	I 1
C36		220PF 200V 10% NPO 0805	H 1
C37 C38	· · · · · · · · · · · · · · · · · · ·	220PF 200V 10% NPO 0805	I 1
		1500PF 50V 5% NPO MLC 0805 T/R	G 1
C39		1500PF 50V 5% NPO MLC 0805 T/R	н 1
C40		220PF 200V 10% NPO 0805	<u> </u>
<u>C41</u>			H 1
C42		220PF 200V 10% NPO 0805	<u> </u>
C43	A11427-104K2		H 4
C44	A11427-104K2		
C45	A11427-104K2		
C46		0.1 MF 50V 10% 0805	<u> </u>
C47	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	<u> </u>
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248 A11369-182.12 0.881UF 58V 5X NPO MLC 0885 T/ E 248 A11368-182.12 0.881UF 58V 5X NPO MLC 0885 T/ E 250 A11368-182.12 0.881UF 58V 5X NPO MLC 0885 T/ E 251 A11368-182.12 0.881UF 58V 5X NPO MLC 0885 T/ E 252 A11368-182.12 0.881UF 58V 5X NPO MLC 0885 T/ E 254 C10391-8 18 UF 16V 28X TANT E 255 C10391-8 18 UF 16V 28X TANT E 256 C10391-8 18 UF 16V 28X TANT F 257 C10391-8 18 UF 16V 28X TANT G 2180 A11427-184K2 0.1 MF 58V 18X 8895 G 2182 A11427-184K2 0.1 MF 58V 18X 8895 G 2184 A11427-184K2 0.1 MF 58V 18X 8805 G 2184 A11427-184K2 0.1 MF 58V 18X 8805 G 2184 A11389-18212 0.801UF 58V 5X NPO MLC 8085 T/ </th <th>REE DES</th> <th>C. P. N.</th> <th>DESCRIPTION</th> <th>MAP LOC.</th>	REE DES	C. P. N.	DESCRIPTION	MAP LOC.					
249 A11369-182.12 0.801LF 50V 5X NPO MLC 0005 T/ E 4 250 A11369-182.12 0.801LF 50V 5X NPO MLC 0005 T/ E 4 251 A11369-182.12 0.801LF 50V 5X NPO MLC 0005 T/ E 4 252 A11369-182.12 0.801LF 50V 5X NPO MLC 0005 T/ E 4 253 A11369-182.12 0.801LF 50V 5X NPO MLC 0005 T/ E 4 254 C10391-8 10 UF 16V 20X TANT E 3 255 C10391-8 10 UF 16V 20X TANT F 3 256 C10391-8 10 UF 16V 20X TANT F 3 257 C10391-8 10 UF 16V 20X TANT G 3 2100 A11427-184K2 0.1 MF 50V 10X 0005 G 3 2102 A11427-184K2 0.1 MF 50V 10X 0005 G 2 2114 A11369-182.12 0.801LF 50V 5X NPO MLC 0005 T/ G 4 2114 A11369-182.12 0.801LF 50V 5X NPO MLC 0005 T/ G 2 2114 A11369-122.12 0.801LF 50V 5X NPO MLC 0005 T/ G 2 2114 A11369-122.12 0.801LF 50V 5X NPO MLC 0005 T/ G 2 2114 A11369-122.12 0.801LF 50V 5X NPO MLC 0005 T/ G 2 <tr< th=""><th></th><th></th><th></th><th></th></tr<>									
C50 A11369-102J2 0.00UF 50V 5X NPO MLC 0005 T/ D C51 A11369-102J2 0.00UF 50V 5X NPO MLC 0005 T/ C C52 A11369-102J2 0.00UF 50V 5X NPO MLC 0005 T/ C C54 C10391-8 10 UF 16V 20X TANT C C55 C10391-8 10 UF 16V 20X TANT C C56 C10391-8 10 UF 16V 20X TANT C C57 C10391-8 10 UF 16V 20X TANT C 3 C100 A11427-104K2 0.1 MF 50V 10X 0805 C 2 C101 C10359-5 1.UF 16V 20X TANT G 3 3 C102 A11427-104K2 0.1 MF 50V 10X 0805 G 2 C103 A11427-104K2 0.1 MF 50V 10X 0805 G 2 C104 A11427-104K2 0.1 MF 50V 10X 0805 G 2 C102 A11427-104K2 0.1 MF 50V 10X 0805 G 2 C104 A11369-102J2 0.00UF 50V 5X NPO MLC 0805 T/ G 2 C110 A11369-102J2 0.00UF				E 4					
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C52 A11369-102.J2 0.001UF 50V 52X NPC MLC 0805 T/ C 4 C54 C10391-8 10 UF 16V 20X TANT C 3 C55 C10391-8 10 UF 16V 20X TANT E 3 C56 C10391-8 10 UF 16V 20X TANT E 3 C57 C10391-8 10 UF 16V 20X TANT G 3 C180 A11427-104K2 0.1 MF 50V 10X 0805 G 3 C181 C10359-5 1.UF 16V 20X TANTALUM SMT G 3 C182 A11427-104K2 0.1 MF 50V 10X 0805 G 2 C184 A11427-104K2 0.1 MF 50V 10X 0805 G 2 C184 A11427-104K2 0.1 MF 50V 10X 0805 G 2 C184 A11427-104K2 0.1 MF 50V 10X NPO MLC 0805 T/ F 3 C114 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 3 C111 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 3 C111 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 3 C111 A11369-102J2 0.001UF 50V 5X NPO MC0 0805 G 2 C114 A11				D 4					
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C180 A11427-104K2 0.1 MF 50V 10X 0005 G 3 C101 C10359-5 I. JF 15V 20X TANTALUM SMT G 3 C102 A11427-104K2 0.1 MF 50V 10X 0005 G 2 C103 A11427-104K2 0.1 MF 50V 10X 0005 G 2 C104 A11427-104K2 0.1 MF 50V 10X 0005 G 2 C104 A11427-104K2 0.1 MF 50V 10X 0005 G 2 C104 A11369-102J2 0.001UF 50V 5X NPO MLC 0005 7/ G 4 C110 A11369-102J2 0.001UF 50V 5X NPO MLC 0005 7/ G 2 C111 A11369-102J2 0.001UF 50V 5X NPO MLC 0005 7/ G 2 C1114 A11369-102J2 0.001UF 50V 5X NPO MLC 0005 7/ G 2 C1114 A11369-220J2 22PF 200V 10X NPO 0005 G 2 C1114 A11369-122J2 1200V 10X NPO 0005 G 2 C1115 102439-11K2 100PF 200V 10X NPO 0005 G 2 C1116 102439-15J2 1500PF 50V 5X NPO MLC 0005 T/R G 1 C1121 102439-15J2 1500PF 50V 5X NPO MLC 0005 T/R G 1 C121 102439-15J2 1500PF 50V 5X NPO MLC 0005 T/R G 1				G 3					
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C115 102438-101K2 100PF 200V 10% NPO 06005 G 2 C116 102438-101K2 100PF 200V 10% NPO 06005 G 2 C117 126475-1 CAP. 47 MF 35V ELECT SMD G 2 C118 126475-1 CAP. 47 MF 35V ELECT SMD G 2 C119 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R G 1 C121 102438-221K2 220PF 200V 10% NPO 0805 G 1 C122 102438-221K2 220PF 200V 10% NPO 0805 G 1 C122 102438-221K2 220PF 200V 10% NPO 0805 G 1 C203 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C210 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 F 2 C214 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO MCC 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO MCC 0805 F 2 <td< td=""><td></td><td></td><td></td><td>G 2</td></td<>				G 2					
C116 182438-101K2 100 F 200 V 18X NPD 0805 G 2 C117 126475-1 CAP. 47 MF 35V ELECT SMD G 2 C118 126475-1 CAP. 47 MF 35V ELECT SMD G 1 C120 A11369-152J2 1500 PF 50V 5X NPD MLC 0805 T/R G 1 C121 102438-221K2 220 F 200 V 10X NPD 0805 G 1 C122 102438-221K2 220 F 200 V 10X NPD 0805 G 1 C1203 A11427-104K2 0.1 MF 50V 10X 0805 F 2 C204 A11369-102J2 0.001 UF 50V 5X NPD MLC 0805 T/ F 3 C211 A11369-102J2 0.001 UF 50V 5X NPD MLC 0805 T/ F 2 C214 A11369-102J2 0.001 UF 50V 5X NPO MLC 0805 T/ F 2 C211 A11369-102J2 0.001 UF 50V 5X NPO MLC 0805 T/ F 2 C212 102438-221 K2 220 F 200 V 10X NPO 0805 F 2 C213 102438-221 K2 220 F 200 V 10X NPO 0805 F 2 C214 A11369-101 K2 100 F 200 V 10X NPO 0805 F 2 C214 A11369-101 K2 100 F 200 V 10X NPO 0805 F 2 C215 102438-101 K2 100 F 200 V 10X NPO 0805 F 2				G 2					
C117 126475-1 CAP. 47 MF 35V ELECT SMD G 2 C118 126475-1 CAP. 47 MF 35V ELECT SMD G 1 C119 A11369-152J2 1500PF 50V 5X NPO MLC 0805 T/R G 1 C120 A11369-152J2 1500PF 200V 10X NPO 0805 G 1 C121 102438-221K2 220PF 200V 10X NPO 0805 G 1 C203 A11427-104K2 0.1 MF 50V 10X 0805 F 2 C210 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10X NPO 0805 F 2 C214 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 3 C211 102438-221K2 220PF 200V 10X NPO 0805 F 2 C213 102438-221K2 220PF 200V 10X NPO 0805 F 2 C214 A11369-220J2 22PF 200V 10X NPO 0805 F 2 C215 102438-101K2 100PF 200V 10X NPO 0805 F 2 C215 102438-101K2 100PF 200V 10X NPO 0805 F 2 C215 102438-101K2 100PF 200V 10X NPO 0805 F 1 <				G 2					
C118 126475-1 CAP. 47 MF 35V ELECT SMD G 2 C119 A11369-152J2 1500PF 50V 5X NPO MLC 0805 T/R G 1 C120 A11369-152J2 1500PF 50V 5X NPO MLC 0805 T/R G 1 C121 102438-221K2 220PF 200V 10X NPO 0805 G 1 C122 102438-221K2 220PF 200V 10X NPO 0805 G 1 C203 A11427-104K2 0.1 MF 50V 10X 0805 F 2 C210 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10X NPO 0805 F 2 C211 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10X NPO 0805 F 2 C214 A11369-120J2 220PF 200V 10X NPO 0805 F 2 C214 A11369-120J2 220PF 200V 10X NPO 0805 F 2 C215 102438-101K2 100PF 200V 10X NPO 0805 F 2 C214 A11369-152J2 1500PF 50V 5X NPO MLC 0805 T/R F 1 C216 102438-101K2 100PF 200V 10X NPO 0805 F 1				G 2					
C119 A11369-152J2 1500PF 50V 5X NPD MLC 0805 T/R G 1 C120 A11369-152J2 1500PF 50V 5X NPD MLC 0805 T/R G 1 C121 102438-221K2 220PF 200V 10X NPD 0805 G 1 C122 102438-221K2 220PF 200V 10X NPD 0805 G 1 C123 A11427-104K2 0.1 MF 50V 10X 0805 F 2 C204 A11427-104K2 0.1 MF 50V 10X 0805 F 2 C210 A11369-102J2 0.001UF 50V 5X NPD MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5X NPD MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10X NPD 0805 F 2 C213 102438-221K2 220PF 200V 10X NPD 0805 F 2 C214 A11369-102J2 220PF 200V 10X NPD 0805 F 2 C213 102438-101K2 100PF 200V 10X NPD 0805 F 2 C214 A11369-220J2 22PF 50V 5X NPD MLC 0805 T/R F 2 C215 102438-101K2 100PF 200V 10X NPD 0805 F 2 C214 A11369-152J2 1500PF 50V 5X NPD MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5X NPD MLC 0805 T/R F 1 <				G 2					
C120 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R G 1 C121 102438-221K2 220PF 200V 10% NPO 0805 G 1 C122 102438-221K2 220PF 200V 10% NPO 0805 G 1 C203 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C204 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C204 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C210 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO/COS CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C218 126475-1 CAP. 47 MF 35V ELECT SMD F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 <td< td=""><td></td><td></td><td></td><td>G 1</td></td<>				G 1					
C121 102438-221K2 220PF 200V 10% NPO 0805 G 1 C122 102438-221K2 220PF 200V 10% NPO 0805 G 1 C203 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C204 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C210 A11359-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10% NPO 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-12J2 2.001UF 50V 5% NPO MLC 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 <tr< td=""><td></td><td></td><td></td><td>G 1</td></tr<>				G 1					
C122 102438-221K2 220PF 200V 10% NPO 0805 G 1 C203 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C204 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C210 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10% NPO 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-102J2 220PF 200V 10% NPO 0805 F 2 C214 A11369-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-101K2 100PF 200V 10% NPO 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C218 126475-1 CAP. 47 MF 35V ELECT SMD F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C				G 1					
C203 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C204 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C210 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10% NPO 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO/COG CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C214 A11369-152J2 100PF 200V 10% NPO 0805 F 2 C214 A11369-162J2 100PF 200V 10% NPO 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1		f		G 1					
C204 A11427-104K2 0.1 MF 50V 10% 0805 F 2 C210 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10% NPO 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-202J 22PF 50V 5% NPO/COG CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP, 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C222 A11369-152J2 1500PF 50V 5% NPO MLC 0805 F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3				F 2					
C210 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 3 C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10% NPO 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO/COG CHIP 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO/COG CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C218 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 F 3 <td></td> <td></td> <td></td> <td>F 2</td>				F 2					
C211 A11369-102J2 0.001UF 50V 5% NPO MLC 0805 T/ F 2 C212 102438-221K2 220PF 200V 10% NPO 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO/COS CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C218 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C301 C10359-5 1.UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 MIN				F 3					
C212 102438-221K2 220PF 200V 10% NPO 0805 F 2 C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO/COG CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300		A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/						
C213 102438-221K2 220PF 200V 10% NPO 0805 F 2 C214 A11369-220J2 22PF 50V 5% NPO/COG CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C410 C410 C410 C410 C410 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C410 C410<		102438-221K2	220PF 200V 10% NPO 0805	F 2					
C214 A11369-220J2 22PF 50V 5% NPO/COG CHIP 0805 F 2 C215 102438-101K2 100PF 200V 10% NPO 0805 F 2 C216 102438-101K2 100PF 200V 10% NPO 0805 F 2 C217 126475-1 CAP, 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2		102438-221K2	220PF 200V 10% NPO 0805	F 2					
C215 102438-101K2 100PF 200V 10% NPD 0805 F 2 C216 102438-101K2 100PF 200V 10% NPD 0805 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C218 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPD MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPD MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPD 0805 F 1 C222 102438-221K2 220PF 200V 10% NPD 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2		A11369-220J2	22PF 50V 5% NPO/COG CHIP 0805	F 2					
C217 102.100 102.100 F 2 C217 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C218 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1.UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 E C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2				F 2					
C218 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1.UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 M M S0V 10% 0805 E 2 S03 A11427-104K2 0.1 MF 50V 10% 0805 E 2 M M M M M M M M M M	C216	102438-101K2	100PF 200V 10% NPO 0805	F 2					
C218 126475-1 CAP. 47 MF 35V ELECT SMD F 2 C219 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C322 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 <t< td=""><td>C217</td><td>126475-1</td><td>CAP, 47 MF 35V ELECT SMD</td><td>F 2</td></t<>	C217	126475-1	CAP, 47 MF 35V ELECT SMD	F 2					
C219 A11369-152J2 1500PF 50V 5% NPD MLC 0805 T/R F 1 C220 A11369-152J2 1500PF 50V 5% NPD MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPD 0805 F 1 C222 102438-221K2 220PF 200V 10% NPD 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 A11427-104K2 0.1 MF 50V 10% 0805 E 2 CROWN INTERNATIONAL INC				F 2					
C220 A11369-152J2 1500PF 50V 5% NPO MLC 0805 T/R F 1 C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2				F 1					
C221 102438-221K2 220PF 200V 10% NPO 0805 F 1 C222 102438-221K2 220PF 200V 10% NPO 0805 E 3 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2				F 1					
C222 102438-221K2 220PF 200V 10% NPD 0805 F 1 C300 A11427-104K2 0.1 MF 50V 10% 0805 E 3 C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 CROWN INTERNATIONAL INTERNATIONAL INC				F 1					
C301 C10359-5 1. UF 16V 20% TANTALUM SMT E 3 C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 CROWN INTERNATIONAL INC CROWN INTERNATIONAL INC CROWN ELMART INDIANA 45517 EMONE	C222			F 1					
C302 A11427-104K2 0.1 MF 50V 10% 0805 F 3 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 CROWN INTERNATIONAL INC INC ELEMENT INDIANA 45517 FHORE (215) 254	C300	A11427-104K2							
C302 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 CROWN INTERNATIONAL INC INC INC 10% 294				Е З					
C303 A11427-104K2 0.1 MF 50V 10% 0805 E 2 CROWN INTERNATIONAL INC				F 3					
				E 2					
1718 WEST MISHAWAYA POAD EIKHART INDIANA 48517 PHONE (219) 294-									
1718 WEST MISHAWAYA POAD EI KHART INDIANA 48517 PHONE (219) 294-				1					
1718 WEST MISHAWAYA POAD EI KHART INDIANA 48517 PHONE (219) 294-									
1718 WEST MISHAWAYA POAD EI KHART INDIANA 48517 PHONE (219) 294-		1	1						
1718 WEST MISHAWAYA POAD EI KHART INDIANA 48517 PHONE (219) 294-			CROWN INTERNATION	AL INC					
			1710 WEET MICHAWAYA DOAD ELYHART INDIANA 48517						

			MAP LOC.
	C.P.N.	DESCRIPTION	E 2
C304 C305		0.1 MF 50V 10% 0805	F 3
C310		0.001UF 50V 5% NPO MLC 0805 T/	E 3
		0.001UF 50V 5% NPO MLC 0805 T/	E 2
C311 C312		0.001UF 50V 5% NPO MLC 0805 T/	E 2
C313		220PF 200V 10% NPO 0805 220PF 200V 10% NPO 0805	E 2
C314		220FF 200V 10% NFO 0805	E 2
C315		100PF 200V 10% NPO 0805	E 2
C316			E 2
C317	126475-1	100PF 200V 10% NPO 0805 CAP, 47 MF 35V ELECT SMD	E 2
C318			E 2
	126475-1	CAP, 47 MF 35V ELECT SMD	E 1
C319		1500PF 50V 5% NPO MLC 0805 T/R	
C320		1500PF 50V 5% NPO MLC 0805 T/R	E 1
<u>C321</u>	**************************************	220PF 200V 10% NPO 0805	E 1
C322		220PF 200V 10% NPO 0805	<u>E 1</u>
C403		0.1 MF 50V 10% 0805	D 2
C404		0.1 MF 50V 10% 0805	D Z
<u>C410</u>		0.001UF 50V 5% NPO MLC 0805 T/	<u>D3</u>
C411		0.001UF 50V 5% NPO MLC 0805 T/	D 2
C412		220PF 200V 10% NPO 0805	D 2
C413		220PF 200V 10% NPO 0805	D 2
C414		22PF 50V 5% NPO/COG CHIP 0805	E 2
C415		100PF 200V 10% NPO 0805	D 2
C416	102438-101K2	100PF 200V 10% NPO 0805	E 2
C417	126475-1	CAP, 47 MF 35V ELECT SMD	D 2
C418	126475-1	CAP, 47 MF 35V ELECT SMD	E 2
C419		1500PF 50V 5% NPO MLC 0805 T/R	D 1
C420	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	D 1
C421	102438-221K2	220PF 200V 10% NPO 0805	D 1
C422	102438-221K2	220PF 200V 10% NPO 0805	D 1
C500	A11427-104K2	0.1 MF 50V 10% 0805	D 3
C501	C10359-5	1.UF 16V 20% TANTALUM SMT	D 3
C502	A11427-104K2	0.1 MF 50V 10% 0805	D 3
C503	A11427-104K2	0.1 MF 50V 10% 0805	C 2
C504	A11427-104K2	0.1 MF 50V 10% 0805	C 2
C505	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	E 3
C510	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	СЗ
C511	the second statement of the se	0.001UF 50V 5% NPO MLC 0805 T/	D 2
C512	102438-221K2	220PF 200V 10% NPO 0805	C 2
C513	102438-221K2	220PF 200V 10% NPO 0805	C 2
C514	A11369-220J2	22PF 50V 5% NPO/COG CHIP 0805	D 2
C515	102438-101K2	100PF 200V 10% NPO 0805	C 2
C516	102438-101K2	100PF 200V 10% NPO 0805	D 2
C517	126475-1	CAP, 47 MF 35V ELECT SMD	C 2
C518	126475-1	CAP. 47 MF 35V ELECT SMD	D 2
C519	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	D 1
C520	A11369-152J2	1500PF 50V 5% NPO MLC 0805 T/R	D 1
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		CROWN INTERNATION	AL INC.
E DRAWINGS	AND SPECIFICATIONS AR WN INTERNATIONAL, INC PRODUCED, COPIED, OR THE MANUFACTURE DR DEVICES WITHOUT PERM	THE DRAWN JFL B-9-99 DWG. NO.	SHEET 7 OF 17

REF DES	C.P.N.	DESCRIPTION	MAP LOC.
C521	102438-221K2	220PF 200V 10% NPD 0805	D 1
C522	102438-221K2	220PF 200V 10% NPO 0805	D 1
C603	A11427-104K2	0.1 MF 50V 10% 0805	B 2
C604	A11427-104K2	0.1 MF 50V 10% 0805	B 2
C610	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	В 3
C611	A11369-102J2	0.001UF 50V 5% NPO MLC 0805 T/	C 2
C612	102438-221K2	220PF 200V 10% NPO 0805	C 2
C613	102438-221K2	220PF 200V 10% NPO 0805	B 2
C614	A11369-220J2	22PF 50V 5% NPO/COG CHIP 0805	C 2
C615			B 2
C616	102438-101K2	100PF 200V 10% NPD 0805	C 2
C617	126475-1	CAP, 47 MF 35V ELECT SMD	C 2
C618	126475-1	CAP, 47 MF 35V ELECT SMD	C 2
C619	A11369-152J2		C 1
C620			C 1
C621			C 1
C622			C 1
C700	A11427-104K2	0.1 MF 50V 10% 0805	СЗ
C701	C10359-5		СЗ
C702	A11427-104K2		С 3
C703			B 2
C704			B 2
C705			С 3
C710			A 3
C711			B 2
C712			<u> </u>
C713			B 2
C714			B 2
C715			B 2
C716			B 2
C717			В 2
C718			B 2
C719			B 1
C720	102438-221K2 220PF 200V 10% NPO 0005 D A11427-104K2 0.1 MF 50V 10% 0005 B A11427-104K2 0.1 MF 50V 10% 0005 B A11369-102J2 0.001UF 50V 5% NPO MLC 0805 // C A11369-102J2 0.001UF 50V 5% NPO MLC 0805 // C 102438-221K2 220PF 20V 10% NPO 0805 C C 102438-101K2 100PF 20V 10% NPO 0805 C C 126475-1 CAP. 47 MF 35V ELECT SMD C C A11369-152J2 1500PF 50V 5% NPO MLC 0805 C C A11427-104K2 220PF 200V 10% NPO 0805 C C A11427-104K2 0.1 MF 50V 10% 0805 C C A11427-104K2 0.1 MF 50V 10% 0805 C C		B 1
C721			B 1
C722			B 1
СВØЗ			A 2
C804	2 102438-221K2 220PF 200V 10% NPD 0805 3 A11427-104K2 0.1 MF 50V 10% 0805 4 A11427-104K2 0.1 MF 50V 10% 0805 2 A11369-102J2 0.001UF 50V 5% NPD MLC 0805 T/ 1 A11369-102J2 0.001UF 50V 5% NPD MLC 0805 T/ 1 102439-221K2 220PF 200V 10% NPD 0805 3 102439-221K2 220PF 50V 5% NPD 0805 4 A11369-102J2 22PF 50V 5% NPD 0805 5 102439-101K2 100PF 200V 10% NPD 0805 6 102439-101K2 100PF 200V 10% NPD 0805 7 126475-1 CAP. 47 MF 35V ELECT SMD 1 126475-1 CAP. 47 MF 35V ELECT SMD 1 102439-221K2 220PF 200V 10% NPD 0805 2 102439-221K2 220PF 200V 10% NPD 0805 3 A11427-104K2 0.1 MF 50V 10% 0805 4 A11427-104K2 0.1 MF 50V 10% 0805 3 A11427-104K2 0.1 MF 50V 10% 0805 4 A11427-104K2 0.1 MF 50V 10% 0805 4 A11427-104K2 0.1 MF 50V 10% 0805 4 A11427-104K2 0.1 MF 50V 10% 0805		A 2
C810	3 A11427-104K2 0.1 MF 50V 10X 0805 4 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ 1 A11369-102J2 0.001UF 50V 5X NPO MLC 0805 T/ 2 102438-221K2 220FF 200V 10X NPO 0805 3 102438-221K2 220FF 200V 10X NPO 0805 4 A11369-120J2 22PF 200V 10X NPO 0805 5 102438-101K2 100PF 200V 10X NPO 0805 5 102438-101K2 100PF 200V 10X NPO 0805 6 102438-101K2 100PF 200V 10X NPO 0805 7 126475-1 CAP. 47 MF 35V ELECT SMD 8 A11369-152J2 1500PF 50V 5X NPO MLC 0805 T/R 1 102438-221K2 220PF 200V 10X NPO 0805 2 102438-221K2 220PF 200V 10X NPO 0805 1 102438-221K2 220PF 200V 10X NPO 0805 1 102438-221K2 220PF 200V 10X NPO 0805 1 102438-221K2 20PF 200V 10X NPO 0805 1 102438-221K2 0.1 MF 50V 10X 0805 1 102438-221K2 0.1 MF 50V 10X 0805 2 101427-104K2 0.1 MF 50V 10X 0805 1 101427-104K2 <t< td=""><td>A 3</td></t<>		A 3
CB11	A11369-102J2 0.001UF 50V 5% NPO MLC 0005 T/ C 102438-221K2 220FF 200V 10% NPO 0005 B3 11369-220J2 22PF 50V 5% NPO/COG CHIP 0005 B3 A11369-220J2 22PF 50V 5% NPO/COG CHIP 0005 C 102438-101K2 100FF 200V 10% NPO 0005 C 1126475-1 CAP. 47 MF 35V ELECT SMD C 126475-1 CAP. 47 MF 35V ELECT SMD C 11369-152J2 1500FF 50V 5% NPO MLC 0005 T/R C 102438-221K2 220FF 200V 10% NPO 0005 C 11427-104K2 0.1 MF 50V 10% 0005 C 11427-104K2 0.1 MF 50V 10% 0005 B 101438-102J2 0.001UF 50V 5% NPO MLC 0005 T/ A 11427-104K2 0.1 MF 50V 10% 0005 B 101438-102J2 0.001UF 50V 5% NPO MLC 0005 T/ A 11369-102J2 0.001UF 50V		
CB12			A 2
C813			
CB14			A 2
CB15			A 2
C816			A 2
CB17			A 2
C818			A 2
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REF DES	ГРМ	PARTS LIST DESCRIPTION	MAP LOC.
CB19		1500PF 50V 5% NPO MLC 0805 T/R	A 1
C820		1500PF 50V 5% NPO MLC 0805 T/R	A 1
C821		220PF 200V 10% NPD 0805	A 1
C822	······	220PF 200V 10% NPD 0805	A 1
FB2	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 4
FB3	125846-1	FERRITE BEAD, 0.5A, 6000HMS	H 1
FB4	125846-1	FERRITE BEAD, 0.5A, 6000HMS	Н 1
FB5	125846-1	FERRITE BEAD, 0.5A, 6000HMS	Н 1
FB6	125846-1	FERRITE BEAD, 0.5A, 6000HMS	Н 1
FB7	125846-1	FERRITE BEAD, 0.5A, 6000HMS	В 4
FB8	125846-1	FERRITE BEAD, 0.5A, 6000HMS	В 4
FB9	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 4
FB10	125846-1	FERRITE BEAD, 0.5A, 6000HMS	E 4
FB11	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 4
FB12	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 4
FB100	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 1
FB101	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 1
FB102	125846-1	FERRITE BEAD, 0.5A, 6000HMS	G 3
FB200	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 1
FB201	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 1
FB300	125846-1	FERRITE BEAD, 0.5A, 6000HMS	E 1
FB301	125846-1	FERRITE BEAD, 0.5A, 6000HMS	E 1
FB302	125846-1	FERRITE BEAD, 0.5A, 6000HMS	F 3
FB400	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 1
FB401	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 1
FB500	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 1
FB501	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 1
FB502	125846-1	FERRITE BEAD, 0.5A, 6000HMS	D 3
FB600	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
F8601	125846-1	FERRITE BEAD, 0.5A, 6000HMS	C 1
FB700	125846-1	FERRITE BEAD, 0.5A, 6000HMS	B 1
FB701	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB702	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u>С 3</u>
F8800	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u> </u>
FB801	125846-1	FERRITE BEAD, 0.5A, 6000HMS	<u>A 1</u>
J1	127183-1	HEADER, 26PIN Ø.1 CTRS	84
L1	125715-1	INDUCTOR, 53UH 1.87A	A 3
R1		10K 1/10W 1% CHIP 0805	A 4
R2	· · · · · · · · · · · · · · · · · · ·	47.5 OHM 0.10W 1% CHIP	A 4
R3		10K 1/10W 1% CHIP 0805	<u> </u>
R4		10K 1/10W 1% CHIP 0805	E 4
R5	A11368-10021	10K 1/10W 1% CHIP 0805	D 4
R6	A11368-47R51		D 4
R7	A11368-47R51	47.5 OHM Ø.10W 1% CHIP	D 4
RB	A11368-47R51	47.5 OHM 0.10W 1% CHIP	D 4
R9	A11368-47R51	47.5 OHM 0.10W 1% CHIP	<u> </u>
R10	A11368-47R51	47.5 OHM 0.10W 1% CHIP	E 4
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		DRAWN JEL B-9-99 DWG. NO.	SHEET 9 OF 17

REF DES	C. P. N.	PARTS LIST DESCRIPTION	MAP LOC.
R11		47.5 OHM Ø.10W 1% CHIP	
R12		10K 1/10W 1% CHIP 0805	E 4
R13		10K 1/10W 1% CHIP 0805	E 4
R14		10K 1/10W 1% CHIP 0805	E 4
R15		47.5 OHM Ø.10W 1% CHIP	E 4
R16		47.5 OHM 0.10W 1% CHIP	E 4
R17	A11368-47R51		E 4
R18		47.5 OHM 0.10W 1% CHIP	E 4
R19	A11368-47R51		E 4
R20	A11368-47R51		A 4
R21		10K 1/10W 1% CHIP 0805	D 4
R21		10K 1/10W 1% CHIP 0805	D 4
R23	· · · · · · · · · · · · · · · · · · ·	10K 1/10W 1% CHIP 0805	D 4
R24		47.5 OHM 0.10W 1% CHIP	D 4
R25		47.5 OHM 0.10W 1% CHIP	D 4
R26	A11368-47R51		D 4
R27	A11368-47R51		D 4
R28	· · · · · · · · · · · · · · · · · · ·	47.5 OHM 0.10W 1% CHIP	D 4
R29		10K 1/10W 1% CHIP 0805	G 4
R30			G 4
R31	ATT300-T0021	10K 1/10W 1% CHIP 0805 OPEN	G 4
	******		G 4
R32	A11260-10021	OPEN	<u> </u>
R33	· · · · ·	10K 1/10W 1% CHIP 0805	<u> </u>
R34	A11371-1501	15 OHM 0.10W 5% CHIP	
R35	A11260-12721	OPEN	G 4 G 4
R36		13.7K 1/10W 1% SMD CHIP 0805	
R37	to a construct of the second sec	13.7K 1/10W 1% SMD CHIP 0805	<u> </u>
R38		13.7K 1/10W 1% SMD CHIP 0805	<u> </u>
R39		13.7K 1/10W 1% SMD CHIP 0805	<u> </u>
R40		13.7K 1/10W 1% SMD CHIP 0805	<u>H 4</u>
R41		3.32K OHM 0.10W 1% CHIP 0805	H 4
R42		13.7K 1/10W 1% SMD CHIP 0805	<u>H 4</u>
R43		3.32K OHM 0.10W 1% CHIP 0805	<u>H 4</u>
R44		7.68K OHM 0.10W 1% CHIP 0805	
R45		13.7K 1/10W 1% SMD CHIP 0805	
R46		3.32K OHM 0.10W 1% CHIP 0805	G 4
R47		13.7K 1/10W 1% SMD CHIP 0805	G 4
R48		3.32K OHM 0.10W 1% CHIP 0805	G 4
R49	A11368-76811		<u>H 4</u>
R50	A11368-30121		I 4
R51	A11368-13721		<u>I 4</u>
R52	A11368-30121	30.1K OHM 0.10W 1% CHIP 0805	<u>H 4</u>
R53	A11368-13721		H 4
R54	A11368-10021	10K 1/10W 1% CHIP 0805	<u>H 4</u>
R55	A11368-49911		<u>H 4</u>
R56	A11368-10021		<u>H 4</u>
R57	A11368-10021	10K 1/10W 1% CHIP 0805	I 4
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		PARTS LIST	
REF DES	C.P.N.	DESCRIPTION	MAP LOC.
R58		10K 1/10W 1% CHIP 0805	H 4
R59		4.99K 1/10W 1% CHIP 0805	G 4
R60		10K 1/10W 1% CHIP 0805	H 4
R61		10K 1/10W 1% CHIP 0805	H 4
R62		100 OHM 0.1W 1% 0805	НЗ
R63		100 OHM 0.1W 1% 0805	НЗ
R64	A11368-10031		Н 1
R65		100K 0.1W 1% CHIP 0805	I 1
R66		100 OHM 0.1W 1% 0805	
R67		100 OHM 0.1W 1% 0805	<u>H 2</u>
R68			<u>H 2</u>
		100K 0.1W 1% CHIP 0805	
R69		100K 0.1W 1% CHIP 0805	<u>H 1</u>
R70		100 OHM 0.1W 1% 0805	НЗ
R71		100 OHM 0.1W 1% 0805	НЗ
R72		100 OHM 0.1W 1% 0805	H 2
R73		100 OHM 0.1W 1% 0805	H 2
R74	A11368-10001		F 4
R75	A11368-47R51		B 4
R76		47.5 OHM 0.10W 1% CHIP	В 4
R77	A11368-47R51		C 4
R78	A11368-47R51		C 4
R79		47.5 OHM 0.10W 1% CHIP	C 4
R100	A11368-10021	10K 1/10W 1% CHIP 0805	63
R101	A11368-10021	10K 1/10W 1% CHIP 0805	G 3
R102		OPEN	G 3
R103		OPEN	GЗ
R104		OPEN	G 3
R105	A11368-10021	10K 1/10W 1% CHIP 0805	G 3
R106	A11371-1501	15 OHM 0.10W 5% CHIP	G 3
R107		100 OHM 0.1W 1% 0805	F 3
R110		13.7K 1/10W 1% SMD CHIP 0805	G 3
R111		13.7K 1/10W 1% SMD CHIP 0805	F 3
R112		13.7K 1/10W 1% SMD CHIP 0805	G 2
R113		3.32K OHM 0.10W 1% CHIP 0805	G 2
R114		13.7K 1/10W 1% SMD CHIP 0805	F 3
R115		3.32K OHM 0.10W 1% CHIP 0805	G 2
R116		7.68K OHM 0.10W 1% CHIP 0805	
R117			G 3
		30.1K OHM 0.10W 1% CHIP 0805 13.7K 1/10W 1% SMD CHIP 0805	G 2
R118 R119			<u> </u>
**************************************		10K 1/10W 1% CHIP 0805	<u> </u>
R120	A11368-49911		<u> </u>
R121	A11368-10021		<u>G 2</u>
R122	A11368-10021		G 2
R123	A11368-10001	100 OHM 0.1W 1% 0805	G 1
R124	A11368-10001		G 1
R125	A11368-10031		G 1
R126	A11368-10031	100K 0.1W 1% CHIP 0805	G 1
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	5 C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R127		100 OHM 0.1W 1% 0805	G 1
R128		100 OHM 0.1W 1% 0805	G 1
R210		13.7K 1/10W 1% SMD CHIP 0805	F 3
R211		13.7K 1/10W 1% SMD CHIP 0805	F 3
R212		13.7K 1/10W 1% SMD CHIP 0805	F 2
R213		3.32K OHM 0.10W 1% CHIP 0805	F 2
R214		13.7K 1/10W 1% SMD CHIP 0805	F 3
R215	4. · · · · · · · · · · · · · · · · · · ·	3.32K OHM 0.10W 1% CHIP 0805	F 2
R216		7.68K OHM 0.10W 1% CHIP 0805	F 3
R217		30.1K OHM 0.10W 1% CHIP 0805	F 2
R218		13.7K 1/10W 1% SMD CHIP 0805	F 2
R219		10K 1/10W 1% CHIP 0805	F 2
R220		4.99K 1/10W 1% CHIP 0805	F 2
R221		10K 1/10W 1% CHIP 0805	F 2
R222		10K 1/10W 1% CHIP 0805	F 2
R223		100 OHM 0.1W 1% 0805	F 1
R223		100 OHM 0.1W 1% 0805	F 1
R225		100K 0.1W 1% CHIP 0805	F 1
R225	and the second se	100K 0.1W 1% CHIP 0805	F 1
R227		100 OHM 0.1W 1% 0805	F 1
R228		100 OHM 0.1W 1% 0805	F 1
R300	and the second	10K 1/10W 1% CHIP 0805	F 3
R301		10K 1/10W 1% CHIP 0805	F 3
R302		OPEN	F 3
R302		OPEN	F 3
R304		OPEN	F 3
R305	A11368-10021	10K 1/10W 1% CHIP 0805	F 3
R306	A11371-1501	15 OHM 0.10W 5% CHIP	E 3
R307		100 OHM 0.1W 1% 0805	E 3
R310		13.7K 1/10W 1% SMD CHIP 0805	E 3
R311	A11368-13721		E 3
R312		13.7K 1/10W 1% SMD CHIP 0805	E 2
R313		3.32K OHM 0.10W 1% CHIP 0805	E 2
R314		13.7K 1/10W 1% SMD CHIP 0805	E 3
R315		3.32K OHM 0.10W 1% CHIP 0805	E 2
R316		7.68K OHM 0.10W 1% CHIP 0805	E 3
R317		30.1K OHM 0.10W 1% CHIP 0805	E 2
R318		13.7K 1/10W 1% SMD CHIP 0805	E 2
R319		10K 1/10W 1% CHIP 0805	E 2
R320		4.99K 1/10W 1% CHIP 0805	E 2
R321		10K 1/10W 1% CHIP 0805	E 2
R322		10K 1/10W 1% CHIP 0805	E 2
R323	A11368-10001		E 1
R324		100 OHM 0.1W 1% 0805	E 1
R325		100K 0.1W 1% CHIP 0805	E 1
R326	the second se	100K 0.1W 1% CHIP 0805	E 1
R327		100 OHM 0.1W 1% 0805	E 1
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		CROWN INTERNATIO	
		1718 WEST MISHAWAKA ROAD ELKHART, INDIANA 46517	PHONE (219) 294-8
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REF DES		DESCRIPTION	MAP LOC.
R328	A11368-10001	100 OHM 0.1W 1% 0805	E 1
R410		13.7K 1/10W 1% SMD CHIP 0805	E 3
R411		13.7K 1/10W 1% SMD CHIP 0805	E 3
R412	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	D 2
R413		3.32K OHM 0.10W 1% CHIP 0805	D 2
R414	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	D 3
R415	A11368-33211	3.32K OHM 0.10W 1% CHIP 0805	D Z
R416	A11368-76811	7.68K OHM 0.10W 1% CHIP 0805	D 3
R417	A11368-30121	30.1K OHM 0.10W 1% CHIP 0805	E 2
R418	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	E 2
R419	A11368-10021	10K 1/10W 1% CHIP 0805	E 2
R420	A11368-49911	4.99K 1/10W 1% CHIP 0805	D 2
R421	A11368-10021	10K 1/10W 1% CHIP 0805	D 2
R422	A11368-10021	10K 1/10W 1% CHIP 0805	E 2
R423	A11368-10001	100 OHM 0.1W 1% 0805	D 1
R424	A11368-10001	100 OHM 0.1W 1% 0805	D 1
R425	A11368-10031	100K 0.1W 1% CHIP 0805	D 1
R426	A11368-10031	100K 0.1W 1% CHIP 0805	D 1
R427	A11368-10001	100 OHM 0.1W 1% 0805	D 1
R428	A11368-10001	100 OHM 0.1W 1% 0805	D 1
R500	A11368-10021	10K 1/10W 1% CHIP 0805	DЗ
R501	A11368-10021	10K 1/10W 1% CHIP 0805	DЗ
R502		OPEN	DЗ
R503		OPEN	D 3
R504		OPEN	DЗ
R505	A11368-10021	10K 1/10W 1% CHIP 0805	D 3
R506	A11371-1501	15 OHM 0.10W 5% CHIP	D 3
R507		100 OHM 0.1W 1% 0805	D 3
R510		13.7K 1/10W 1% SMD CHIP 0805	D 3
R511		13.7K 1/10W 1% SMD CHIP 0805	D 3
R512		13.7K 1/10W 1% SMD CHIP 0805	<u>C 2</u>
R513	comments and a second second second	3.32K OHM 0.10W 1% CHIP 0805	D 2
R514	1	13.7K 1/10W 1% SMD CHIP 0805	<u> </u>
R515	1 · · · · · · · · · · · · · · · · · · ·	3.32K OHM 0.10W 1% CHIP 0805	<u>C 2</u>
R516		7.68K OHM 0.10W 1% CHIP 0805	<u>C3</u>
R517		30.1K OHM 0.10W 1% CHIP 0805	D 2
R518		13.7K 1/10W 1% SMD CHIP 0805	D Z
R519		10K 1/10W 1% CHIP 0805	
R520		4.99K 1/10W 1% CHIP 0805	
R521		10K 1/10W 1% CHIP 0805	D 2
R522	A11368-10021		D 2
R523		100 OHM 0.1W 1% 0805	D 1
R524	A11368-10001	100 OHM 0.1W 1% 0805	
R525	A11368-10031	100K 0.1W 1% CHIP 0805	
R526	A11368-10031	100K 0.1W 1% CHIP 0805	
R527	A11368-10001		
R528	A11368-10001	100 OHM 0.1W 1% 0805	D 1
			+
			<u> </u>
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EF DES	C.P.N.	PARTS LIST DESCRIPTION	MAP LOC.
R610		13.7K 1/10W 1% SMD CHIP 0805	DЗ
R611	······	13.7K 1/10W 1% SMD CHIP 0805	D 3
7612		13.7K 1/10W 1% SMD CHIP 0805	C 2
7613		3.32K OHM 0.10W 1% CHIP 0805	C 2
R614		13.7K 1/10W 1% SMD CHIP 0805	B 2
7615		3.32K OHM 0.10W 1% CHIP 0805	B 2
7616		7.68K OHM 0.10W 1% CHIP 0805	СЗ
R617		30.1K OHM 0.10W 1% CHIP 0805	C 2
R618	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	C 2
R619	A11368-10021	10K 1/10W 1% CHIP 0805	C 2
7620	A11368-49911	4.99K 1/10W 1% CHIP 0805	B 2
7621	A11368-10021	10K 1/10W 1% CHIP 0805	C 2
7622	A11368-10021	10K 1/10W 1% CHIP 0805	C 2
7623	A11368-10001	100 OHM 0.1W 1% 0805	C 1
7624	A11368-10001	100 OHM 0.1W 1% 0805	C 1
7625	A11368-10031	100K 0.1W 1% CHIP 0805	C 1
R626	A11368-10031	100K 0.1W 1% CHIP 0805	C 1 (
R627	A11368-10001	100 OHM 0.1W 1% 0805	C 1
7628	A11368-10001	100 OHM 0.1W 1% 0805	C 1
R700	A11368-10021	10K 1/10W 1% CHIP 0805	СЗ
R701	A11368-10021	10K 1/10W 1% CHIP 0805	СЗ
R702		OPEN	СЗ
R703		OPEN	СЗ
R704		OPEN	СЗ
R705	A11368-10021	10K 1/10W 1% CHIP 0805	СЗ
R706	A11371-1501	15 OHM 0.10W 5% CHIP	С 3
R707	A11368-10001	100 OHM 0.1W 1% 0805	В 3
R710		13.7K 1/10W 1% SMD CHIP 0805	С 3
R711	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	С 3
R712		13.7K 1/10W 1% SMD CHIP 0805	B 2
R713	and the second sec	3.32K OHM 0.10W 1% CHIP 0805	B 2
R714		13.7K 1/10W 1% SMD CHIP 0805	A 3
R715		3.32K OHM 0.10W 1% CHIP 0805	<u>B2</u>
R716		7.68K OHM 0.10W 1% CHIP 0805	<u> </u>
R717		30.1K OHM 0.10W 1% CHIP 0805	<u> </u>
R718		13.7K 1/10W 1% SMD CHIP 0805	<u> </u>
R719		10K 1/10W 1% CHIP 0805	<u>B 2</u>
R720		4.99K 1/10W 1% CHIP 0805	<u>B 2</u>
R721		10K 1/10W 1% CHIP 0805	<u> B 2</u>
R722		10K 1/10W 1% CHIP 0805	<u> </u>
R723		100 OHM 0.1W 1% 0805	<u> </u>
R724		100 OHM 0.1W 1% 0805 100K 0.1W 1% CHIP 0805	B 1
R725		and a second	B 1
R726		100K 0.1W 1% CHIP 0805	<u> </u>
R727		100 OHM 0.1W 1% 0805 100 OHM 0.1W 1% 0805	<u> </u>
R728 R810			B 1 B 3
	A11300-13/21	13.7K 1/10W 1% SMD CHIP 0805	
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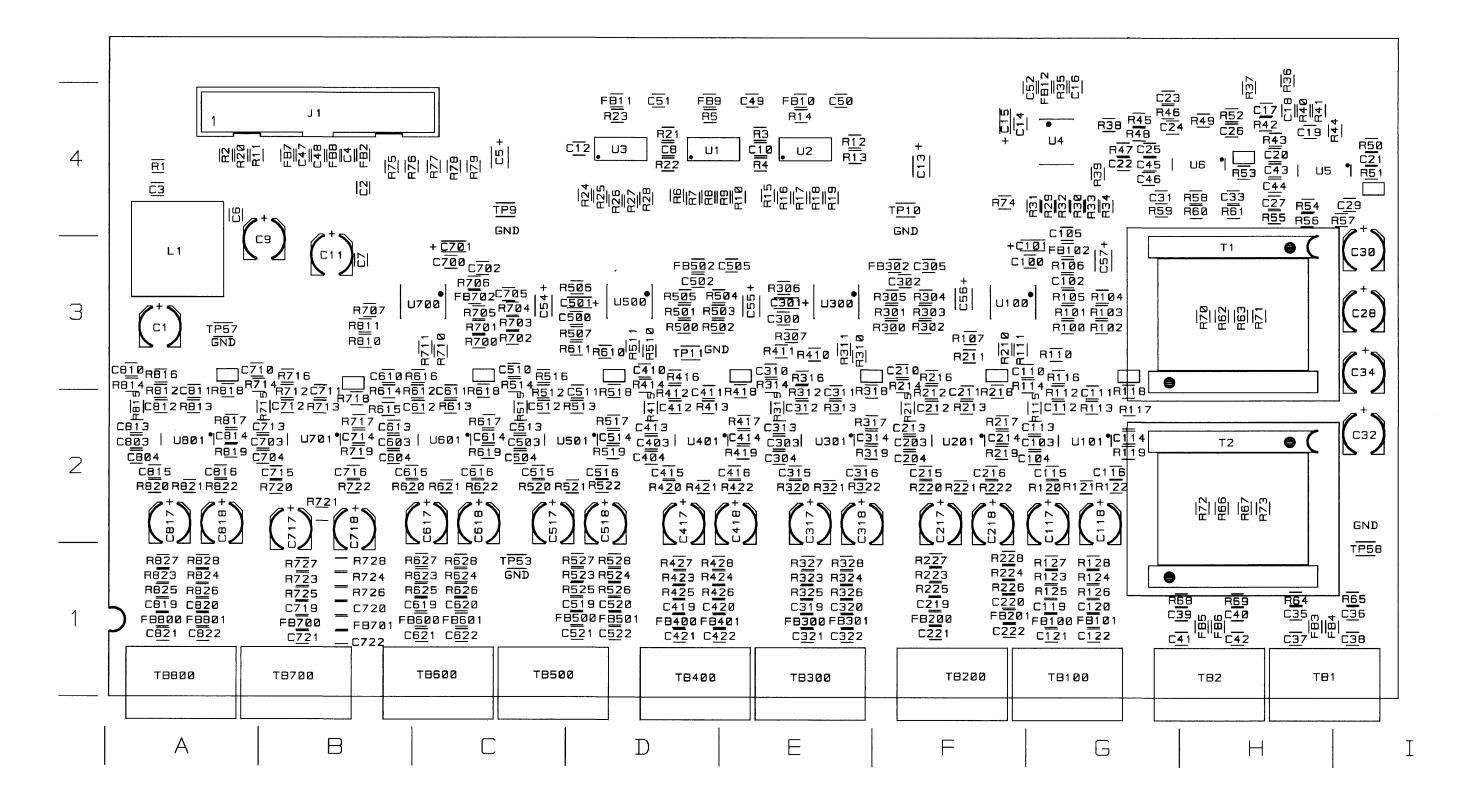
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		PARTS LIST	
REF DES	C. P. N.	DESCRIPTION	MAP LOC.
RB11	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	В 3
RB12	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	A 2
R813	A11368-33211	3.32K OHM 0.10W 1% CHIP 0805	A 2
R814	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	A 3
R815	A11368-33211	3.32K OHM 0.10W 1% CHIP 0805	A 2
R816	A11368-76811	7.68K OHM 0.10W 1% CHIP 0805	A 3
R817	A11368-30121	30.1K OHM 0.10W 1% CHIP 0805	A 2
RB18	A11368-13721	13.7K 1/10W 1% SMD CHIP 0805	A 2
R819	A11368-10021	10K 1/10W 1% CHIP 0805	A 2
R820	A11368-49911	4.99K 1/10W 1% CHIP 0805	A 2
R821	A11368-10021	10K 1/10W 1% CHIP 0805	A 2
RB22	A11368-10021	10K 1/10W 1% CHIP 0805	A 2
RB23	A11368-10001	100 OHM 0.1W 1% 0805	A 1
RB24	A11368-10001	100 OHM 0.1W 1% 0805	A 1
RB25	A11368-10031	100K 0.1W 1% CHIP 0805	A 1
R826	A11368-10031	100K 0.1W 1% CHIP 0805	A 1
RB27	A11368-10001	100 OHM 0.1W 1% 0805	A 1
R828	A11368-10001	100 OHM 0.1W 1% 0805	A 1
T1	OPEN		НЗ
T2	OPEN		H 2
TB1	C 9676-5	TB3 R/A	<u>H 1</u>
TB2	C 9676-5	TB3 R/A	G 1
TB100	C 9676-5	TB3 R/A	G 1
TB200	C 9676-5	TB3 R/A	F 1
TB300	C 9676-5	TB3 R/A	E 1
TB400	C 9676-5	TB3 R/A	D 1
TB500	C 9676-5	TB3 R/A	C 1
TB600	C 9676-5	TB3 R/A	B 1
TB700	C 9676-5	TB3 R/A	B 1
TB800	C 9676-5	TB3 R/A	A 1
TP9	127064-1	TEST POINT, SMT 1206	<u>C 4</u>
TP10	127064-1	TEST POINT, SMT 1206	F 4
TP11	127064-1	TEST POINT, SMT 1206	D 3
TP53	127064-1	TEST POINT, SMT 1206	C 1
TP57	127064-1	TEST POINT, SMT 1206	A 3
TP58	127064-1	TEST POINT, SMT 1206	<u> </u>
U1	126509-1	IC, 49FCT805 BUFFER/CLK DRVR	D 4
UZ	126509-1	IC, 49FCT805 BUFFER/CLK DRVR	E 4
<u>U3</u>	126509-1	IC, 49FCT805 BUFFER/CLK DRVR	D 4
U4	125631-1	DAC, 24BIT C54390-KS 20 SSOP	<u> </u>
U5	C 9012-3	MC33079D QUAD LO NOISE OP AMP	<u>H 4</u>
U6	C 9012-3	MC33079D QUAD LO NOISE OP AMP	<u>H 4</u>
U100	125631-1	DAC, 24BIT CS4390-KS 20 SSOP	F 3
U101	C 9012-3	MC33079D QUAD LO NOISE OP AMP	<u> </u>
U201	C 9012-3	MC33079D QUAD LO NOISE OP AMP	F 2
<u>U300</u>	125631-1	DAC, 24BIT C54390-KS 20 SSOP	<u>E 3</u>
U301	C 9012-3	MC33079D QUAD LO NOISE OP AMP	E 2
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	· · · · · · · · · · · · · · · · · · ·	PARTS LIST	
REF DES		DESCRIPTION	MAP LOC.
	C 9012-3	MC33079D QUAD LO NOISE OP AMP	D 2
	125631-1	DAC, 24BIT CS4390-KS 20 SSOP	D 3
U501	C 9012-3	MC33079D QUAD LO NOISE OP AMP	D 2
U601	C 9012-3	MC33079D QUAD LO NOISE OP AMP	C 2
U700	125631-1	DAC, 24BIT CS4390-KS 20 SSOP	СЗ
U701	C 9012-3	MC33079D QUAD LO NOISE OP AMP	B 2
U801	C 9012-3	MC33079D QUAD LO NOISE OP AMP	A 2
1	126692-4	PWB, USMB10 OUTPUT	
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PWA #128051-3 Component Map (Component Side)

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9 Schematic Diagrams

The schematics provided are representative only. There may be slight variations between amplifier to amplifier. These schematics are intended to be used for troubleshooting purposes only.

126323 Rev. A 126688 Rev. A 126691 Rev. C 126742 Rev. C 126742 Rev. D 126745 Rev. A 126451-3 Rev. A 126690-3 Rev. A 126693-4 Rev. A 126744-3 Rev. A This page intentionally left blank